Program of Studies
2019 – 2020
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Approved by Pembroke School Committee, pending town approval of the 2019-2020 budget: subject to change.

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TO STUDENTS AND FAMILIES:

The purpose of this Program of Studies is to help students and their parents make choices from among the range of courses available at Pembroke High School. As principal, it is my goal that all students use their four years at PHS to develop their current interests and abilities as well as foster new passions and pursuits that may serve them well in the future. In order to accomplish that, students and families must use the course selection process wisely, assessing strengths and weaknesses carefully so that they can develop a course of studies at the appropriate academic levels that will allow students to be both challenged and successful.

Using the course selection process wisely begins now. By reading this Program of Studies thoroughly with your child and asking questions of the appropriate school personnel before selecting courses, students and families are taking the important first step in creating a comprehensive plan for student success. Students and families are especially encouraged to read the sections on program sequences, graduation requirements, and schedule changes. Once the school year begins, such changes are made rarely and only in extraordinary circumstances; therefore, any decisions about class enrollment must be made with great and careful deliberation.

Students are encouraged to speak with their teachers about course recommendations, especially if there is a disagreement between what the teacher recommends and what the student feels is appropriate. Furthermore, students and families should engage in meaningful dialogue with guidance counselors, especially when students are electing to “override” a teacher recommendation or when a student is taking an academic risk by electing a course at a higher level of instruction. Such risk-taking is encouraged, but only after earnest risk-assessments are made. Remember, teacher-level recommendations are offered by way of a realistic assessment of the student’s abilities and work habits, and are intended to place students in courses where the pace, expectations, and standards are appropriate to their needs and abilities.

To the families of all incoming 9th graders, I respectfully ask that you consider planning, at least tentatively, a 4-year program of studies for your child. Naturally, changes in this plan may occur over the course of the next four years, but advanced planning will certainly help your child attain long term goals.

Teachers and counselors are available to provide assistance to all families and students. Please take advantage of their expertise and make your important decisions after careful thought.

Sincerely,

Marc Talbot
Principal
**District Mission**
To ensure student achievement through excellence in teaching and learning.

**Core Values**
Pembroke High School’s core values provide the foundation for all students to develop the skills, qualities, and talents that empower them to achieve. We challenge them to be honorable, lifelong learners, and informed young adults through varied learning opportunities, differentiated instruction, personalized teaching, and authentic assessment. Students will be able to demonstrate their success in a respectful and supportive environment.

**Beliefs**
Pembroke High School believes in collaborating with staff, students, parents, and community to create a cohesive learning environment. We work to foster school pride, diversity, and global awareness. We encourage students to apply academic skills, take creative risks, strive for excellence, and achieve their highest potential. We provide high quality opportunities in athletics, the arts, and co-curricular activities, allowing students to develop and excel beyond the classroom. We believe this will ready students for what the changing world may offer in the 21st century.

**Academic Expectations**
Students will:
A1. Read actively and critically for a variety of purposes.
A2. Write with clarity, purpose and consideration of audience.
A3. Identify, analyze and solve problems using a variety of strategies.
A4. Present information with clarity, purpose and consideration.
A5. Utilize appropriate resources and current technology.
A6. Work effectively both independently and collaboratively.

**Social and Civic Expectations**
Students will:
SC1. Exercise leadership and responsibility by contributing to a school environment that promotes teamwork, goal setting and good sportsmanship.
SC2. Be productive and collaborative contributors to group efforts in service, employment, and life experiences.
SC3. Develop skills, competencies and qualities to succeed personally and professionally in a globally competitive information age.
SC4. Respect human differences and appreciate global perspectives.
SC5. Demonstrate personal, social, and civic responsibility.
Promotion and Graduation Requirements

Minimum Course Obligations

All students must enroll in a minimum of six courses per semester (24 total credits/year) and may not select more than one study per semester. For each full year course a student passes, the student will earn 4 credits. For each semester course a student passes, the student will earn 2 credits.

Any student who has not earned the credits indicated under Credit Status will not be considered a student in good standing.

It is each student's responsibility to select a program with sufficient credits for promotion each year and to make necessary schedule adjustments due to failures or lack of prerequisite courses. School counselors are available to assist students and family members in planning the appropriate program to meet these requirements. Students are encouraged to discuss and review their choices with their school counselor.

Credit Status

To advance to the next grade level, a student must earn the following number of credits

- Students must complete 20 credits to be considered a sophomore.
- Students must complete 42 credits to be considered a junior.
- Students must complete 64 credits to be considered a senior.
- Students must complete 88 credits to graduate from Pembroke High School.

All students must pass

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four Years of English</td>
<td>16</td>
</tr>
<tr>
<td>Four Years of Mathematics</td>
<td>16</td>
</tr>
<tr>
<td>Three Years of Social Studies</td>
<td>12*</td>
</tr>
<tr>
<td>Three Years of Science</td>
<td>12**</td>
</tr>
<tr>
<td>Four Years of Wellness</td>
<td>8***</td>
</tr>
</tbody>
</table>

Community Service: 40 hours over four years

* Students must pass one year of World History and two years of US History.
** Students must pass Biology and Chemistry.
*** Please see Chapter Nine (Wellness) for additional information regarding wellness requirements.

MCAS Requirements

In accordance with Massachusetts state law, in order to receive a high school diploma, Pembroke High School students must obtain the minimum required score (220 or higher) on the MCAS examinations in the following subject areas: English Language Arts (ELA), Mathematics, and Science/Technology. Pembroke High School curriculum is designed to meet the State Frameworks upon which the MCAS tests are based. Support services will be required for students who may be at risk for passing these exams.
Educational Proficiency Plan (EPP)

Students who score Needs Improvement on the mathematics or English MCAS (a score between 220-239) must be placed on an Education Proficiency Plan (EPP). The plans are developed in consultation with the guidance counselor, principal, and the Content Supervisors of mathematics and/or English. Students must fulfill the requirements of the EPP in order to demonstrate proficiency and earn their PHS diploma. Students on an EPP will have opportunities to retake the exam to demonstrate proficiency.

Course Waiver

The principal has the authority to waive or delay the completion of graduation course requirements when scheduling difficulties arise. Regardless of any action approved by the principal, the designated number of credits by Year of Graduation must still be met to graduate.

Failed Classes

Students who fail classes required for graduation should make up these classes in summer school. Seniors who have not fulfilled the academic requirements by the last day of semester classes may not participate in graduation. (See Pembroke High School Handbook)

Dual Enrollment

The Dual Enrollment Program was authorized in the Education Reform Act of 1993 as an enrichment program that allows qualified high school juniors and seniors to enroll in courses at neighboring public colleges and receive both high school and college credit. To qualify for dual enrollment, juniors and seniors should have a GPA of 3.0 or better, be recommended by the high school principal and the school counselor or a teacher, and have written approval of his/her Parent or Caregiver.

Students participating in this program are responsible for costs associated with transportation and books/materials for classes.

Grades earned under Dual Enrollment will not be included in the student’s grade point average; however, the grade and credits will be reflected on the transcript. For more information on dual enrollment, please see your school counselor.
**Course Levels of Instruction**

It is our belief that, in order to become contributing member of our global community, all students should be given skills which will enable them to continue their education beyond high school. While some students may not immediately go on to a college or university, all courses at Pembroke High School are designed to support our graduates’ success in post-secondary education or professional/technical training.

The professional staff at Pembroke High School is committed to a program of studies that provides a maximum intellectual challenge through a demanding and rigorous curriculum for all students. Since students develop at different rates and have varying degrees of interest, motivation and work habits, a series of levels have been established to provide all students with the necessary support. Students may change levels as they go through high school depending upon changing needs as demonstrated by a student’s performance, standardized tests, and teacher assessment/recommendations.

Students are encouraged to enroll in the most challenging program appropriate to their needs, interests, and abilities. Placement in these levels will be based on each department’s prerequisites and specifications, as well as on the basis of aptitude as determined by past academic performance, standardized test scores, and teacher recommendations. Please refer to the department section for exact specifications and prerequisites for particular courses.

The levels are Advanced Placement, Honors, and College Prep. They are described below.

**Advanced Placement**

The requirements and curriculum at this level are determined and approved by the College Board. All courses are designed to challenge students who are academically ready, diligent, highly motivated and able to move beyond the standards of a high school honors curriculum to those of a college level survey course. These courses involve considerable enrichment and acceleration as well as extensive independent long-term assignments. The College Board estimates 8-10 hours of homework per week, per AP course. For additional information please see “A Message for Prospective Advanced Placement Students” on page 8.

**Honors**

By virtue of their interest, diligence, preparation, skill and readiness, some students have demonstrated that they are capable of achieving at a level that exceeds the Massachusetts State Learning Standards. Courses in this level go beyond the State Standards in pace, depth, and expectations of independent learning. Honors courses have the same core curriculum and utilize the same text resources as College Prep courses. Students in science courses must be willing to work independently, analyze data, compose formal lab reports, develop the ability to engage in problem-solving and inquire and collaborative learning that includes the synthesis and integration of different types of data and analysis with the ability to communicate the results. The pace, assessment, and supplementary materials may differ in response to students’ skills levels and content mastery. This level is for students who successfully go beyond defining, summarizing and organizing large bodies of knowledge to actively analyzing. Students at this level are expected to further develop skills of synthesis and criticism. In order to meet with success, students must be organized, disciplined, task committed and demonstrate the ability to do independent work.
College Prep

Instruction at this level meets all current mastery standards and benchmarks as described in the Massachusetts State Learning Standards. College Prep presents a challenging curriculum for the majority of students and is characterized by high academic standards and expectations students must develop the ability to critically think, problem solve along with developing the ability to perform significant independent and long-term assignments. Students at this level should be able to move from more structured learning tasks to independent active learning. A College Prep student must be able to define, summarize, and organize large bodies of knowledge and needs to be able to analyze problems to develop the skills of synthesis and criticism. Students in College Prep use their classroom skills to understand the applications in all disciplines.

A MESSAGE TO PROSPECTIVE ADVANCED PLACEMENT STUDENTS AND FAMILIES

Pembroke High School encourages and supports students to explore AP courses. Advanced Placement, a program of the College Board, provides advanced study to able and highly motivated students at a first year college level. Many colleges and universities award credit or exempt students from first year courses, based on scores earned on the Advanced Placement examinations given annually. Because enrollment and success in an AP course can be considered evidence of commitment to serious study, students may benefit in the college admissions process. Students intending to take one or more AP courses are encouraged to discuss this decision with their parents/caregivers and also with their teachers and guidance counselors.

Enrollment in an Advanced Placement course demonstrates a commitment to an intensive course of study at the level of a college freshman course. Students and parents/caregivers will be provided with an AP contract which acknowledges their understanding of the expectations and requirements of enrollment in an AP course. Students who request an AP course are expected to remain in the course for the entire year. It is also each student’s obligation to take the Advanced Placement examination in May, so that individual achievement in this course can be measured against other students across the country who have taken the same exam. It is expected that the student, or his/her family, will bear the cost of each examination. However, in cases where students are in need of financial assistance with the AP testing fees, they should discuss this with either their counselor or the principal and provisions for assistance may be considered. Students who take the AP examination do so in lieu of a department final.

Prior to the close of the school year, students will meet with teachers to discuss standards and expectations for each AP course. This meeting will include an overview of the course content expectations regarding summer work, and a family contract signed by students and parents acknowledging those expectations.

Students who complete an Advanced Placement course, including taking the examination, receive the benefit of having the AP notation on their high school transcript. This indicates to college admissions officers that the applicant is a motivated student with serious intent.

Students are required to complete the entire AP course, including the examination. Students who do not complete the course and exam would receive Honors level credit for that course. This change in status would be noted on the student’s final transcript.
Profile of an AP Student

- Student is an independent learner, who readily understands concepts presented in each lesson and requires limited assistance with outside assignments
- Student thoroughly completes all assignments in a conscientious manner, demonstrating attention to detail and accuracy
- Student is consistently engaged in learning activities and classroom dialogue
- Student is enthusiastic about his/her learning and the subject matter
- Students develop critical thinking and reasoning skills
- Student demonstrates skillful time management in completion of assignments and assessments
- Student is able to identify and apply the most appropriate strategy to each learning activity
- Student is able to make connections between abstract concepts and concrete applications
- Student welcomes the responsibility for managing a demanding workload
- Students in an AP science courses engage in inquiry based learning with rigorous investigations designed to solve problems through first hand observations, data collection, analysis and interpretations.

Grading Scale

The grading system of Pembroke High School records and reports the teachers’ assessment of student achievement. Teachers will provide course expectations, a grading policy, and rubrics. Grades are generally based upon a variety of assessments, such as: tests, quizzes, essays, final exams, homework assignments, final projects, and classroom participation.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-</td>
<td>90-92</td>
</tr>
<tr>
<td>A</td>
<td>93-96</td>
</tr>
<tr>
<td>A+</td>
<td>97-100</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>C-</td>
<td>70-72</td>
</tr>
<tr>
<td>C</td>
<td>73-76</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
</tr>
<tr>
<td>D-</td>
<td>60-62</td>
</tr>
<tr>
<td>D</td>
<td>63-66</td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
</tr>
<tr>
<td>F</td>
<td>59 and below</td>
</tr>
</tbody>
</table>
Weighted GPA Scale at PHS
A weighed grade point average will be calculated for Pembroke High School students. All Pembroke High School courses will be included in the grade point average. Grades of a “P” or an “F” will not be weighted into the GPA.

The grade point average is calculated by converting grades to their corresponding numerical equivalent according to the chart below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>AP</th>
<th>HONORS</th>
<th>CP I</th>
<th>CP II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>5.3</td>
<td>4.8</td>
<td>4.3</td>
<td>4.05</td>
</tr>
<tr>
<td>A</td>
<td>5.0</td>
<td>4.5</td>
<td>4.0</td>
<td>3.75</td>
</tr>
<tr>
<td>A-</td>
<td>4.7</td>
<td>4.2</td>
<td>3.7</td>
<td>3.45</td>
</tr>
<tr>
<td>B+</td>
<td>4.3</td>
<td>3.8</td>
<td>3.3</td>
<td>3.05</td>
</tr>
<tr>
<td>B</td>
<td>4.0</td>
<td>3.5</td>
<td>3.0</td>
<td>2.75</td>
</tr>
<tr>
<td>B-</td>
<td>3.7</td>
<td>3.2</td>
<td>2.7</td>
<td>2.45</td>
</tr>
<tr>
<td>C+</td>
<td>3.3</td>
<td>2.8</td>
<td>2.3</td>
<td>2.05</td>
</tr>
<tr>
<td>C</td>
<td>3.0</td>
<td>2.5</td>
<td>2.0</td>
<td>1.75</td>
</tr>
<tr>
<td>C-</td>
<td>2.7</td>
<td>2.2</td>
<td>1.7</td>
<td>1.45</td>
</tr>
<tr>
<td>D+</td>
<td>2.3</td>
<td>1.8</td>
<td>1.3</td>
<td>1.05</td>
</tr>
<tr>
<td>D</td>
<td>2.0</td>
<td>1.5</td>
<td>1.0</td>
<td>.75</td>
</tr>
<tr>
<td>D-</td>
<td>1.7</td>
<td>1.2</td>
<td>0.7</td>
<td>.45</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Estimated College GPA
PHS GPAs are weighted based on the level of course work for all subjects. Most colleges recalculate a student’s GPA using only core subjects. Guidance counselors are available to help students and families with any specific GPA questions.

Course Availability
All courses outlined in the Program of Studies may be limited in enrollment. Staffing decisions are dependent upon course enrollments and available resources. Low enrollment or staffing constraints may result in the cancellation of courses and/or sections. When enrollment must be limited, preference will be given first to seniors, followed by juniors, sophomores then freshmen. If a course is not available for any of the reasons stated above, affected students will be notified by their school counselor and counselors will assist students in making alternative course selections. Conflicts in scheduling could occur for any course; therefore, it is important for students to prioritize their courses when planning out their four-year academic program.
Course Registration

At Pembroke High School, a vast amount of time and effort is dedicated to assist students in selecting courses which best fit each students’ academic needs and interests. The course selection procedure is designed to insure that students, parents, teachers, and school counselors all contribute to the decision-making process by thoughtfully reviewing course options.

During the course registration process, students’ current teachers will make recommendations for the appropriate level placement regarding next year’s courses. Teacher level recommendations are offered by way of a realistic assessment of the student’s abilities and work habits, and are intended to place students in courses where the pace, expectations, and standards are appropriate to their needs and abilities.

Course Registration Procedure

- Students and school counselors discuss the overall course selection process and timetable in guidance seminars, individual meetings, and/or during advisory.
- Students, teachers, counselors and parents discuss program choices for the following year and review the course descriptions in the Program of Studies paying close attention to any course prerequisites, course recommendations, and course expectations.
- Teachers conference with students and make course and level recommendations within PowerSchool.
- Counselors will review all student requests and meet with all students in small groups prior to course selection and individually during/after the course selection process.
- Students request elective courses on-line using PowerSchool during the assigned PowerSchool course selection dates.
- Prior to the last day of school, students will be given a copy of their enrolled courses for the next academic school year. This is to be considered a SCHEDULE CONTRACT between the school and the student. Students will not be allowed to “drop” or change courses at will, so please choose your courses carefully.
- If there is a discrepancy between the teacher recommendation and/or a student/parent request, the parent must have a conversation with the teacher in order to discuss the initial recommendation. If a change is required, the teacher/parent/student will contact the guidance department. While parents have the final responsibility for the selection of a program of study, questions are encouraged and should be brought to the Guidance Department, classroom teacher, and/or the Content Supervisor.
- Once school begins in August, no changes in a student’s schedule will be made prior to first term progress reports or end of the first quarter.
Level Override Process
It is important to maintain clear communication between student, parent, and teacher, particularly when a teacher recommendation differs from the level that the student feels is more appropriate. These steps are required to ensure proper communication between teachers, students and families:
1. Student and parent have a conversation with recommending teacher regarding moving to a different level.
2. If no resolution, parent/student may obtain an override form in the guidance office.
3. Parent and student complete the form and meet with the content supervisor.
   • Override forms will only be accepted after the family has had a conversation with the recommending teacher.
4. Content Supervisor completes form and returns to guidance.

Placement Review:
Schedule Changes During the School Year
Once school begins in August, no changes in a schedule will be made prior to first term progress reports. This allows all stakeholders enough time to conduct a thorough placement review to see if, despite a student’s best efforts, success in a class will not be possible.

Requests to review placement, which can be initiated by contacting a student’s guidance counselor, can occur at the request of the teacher or of the student and family once grades close for progress reports. Then, input is solicited from the teacher, the student and family, content supervisors, and building administrators, all of whom must sign off as participants in the review process. The key, determining factor in establishing that a student has, indeed, been misplaced in a class is the degree to which the student is doing everything possible to be successful in a class. This includes but is not limited to completing all assignments in a timely and earnest manner and staying for extra help on a consistent basis. If all stakeholders agree that this is the case and that the student is still not meeting success despite those efforts, then the schedule change can occur.

For half-year courses, the window to review placement will be closed after first quarter progress reports. If no change is made at that time, the student's placement in all classes will be considered permanent. For full-year courses, a similar placement review can begin on the day grades close for the first quarter. If a change of placement is not made at that time, the student’s schedule will be considered final.

Because the master schedule, teacher workload, and class sizes are all based on the course selection process in the spring, changes to the schedule in the fall are difficult to accommodate. For that reason, the only manner by which a student’s schedule will be changed is by the placement review process described above. Requests to change because a student dislikes a course, has underestimated course expectations, has a change of mind, has a preference to have/not have a particular teacher, or wants an easier class simply cannot be honored.

If a student receives an A or B at a particular level and is considering a move to a higher academic level, the counselor and student should review the criteria for that higher level very carefully so that the he/she understands the commitment that he/she is making in moving to a higher academic level. Other criteria such as test scores, standardized testing information, previous grades and levels, and a teacher’s recommendation are also considered.
Students requesting a change to a lower level must exhibit serious gaps in their ability to perform successfully in any given subject. For a change to a CPII course, students must meet specific requirements. Generally, students who demonstrate their best effort to try and resolve issues in a particular class overcome these challenges. Ways to demonstrate effort include: going for extra help, good attendance, and completion of class assignments and homework. Any changes will be made at progress reports or at the end of the term.

Level changes will be made only after careful consultation with the counselor, teacher and content supervisor. The student and parent / caregiver must complete a course change request form and return it to the school counselor. If the student, parent, teacher, content supervisor and counselor agree that the requested changes are in the best interest of the student, then a change can be made. If there is disagreement, then a meeting with all parties included will be held, possibly including an administrator. Any changes will be made after the completion of the term.

If a level change is required for a student during the school year, he/she will carry the letter grade earned from the previous level to the new level and will be factored into the final grade average.

From time to time, a student broaches the possibility of withdrawing from a class. For a variety of reasons, such a decision is discouraged at PHS and is considered only as a last resort. Thus, any request to withdraw from a class will only be entertained after several other interventions have proven unsuccessful. Students and families should work collaboratively with school personnel (counselors, teachers, administrators) to ensure that all other options are implemented before a student is allowed to withdraw from a class. If considering this option:

1. Students may not drop a course until progress reports or the completion of term 1
2. A student may not add another course (to replace a dropped course) once a course has started. (This is not the same as changing a course level)
3. A student must discuss the possible withdraw with his/her classroom teacher, counselor, and parent/caretaker. A course withdrawal form (available in guidance) must be completed.
4. All parties, including the department head, must agree that dropping a course is in the best interest of the student.
5. A student does not receive any partial credit for a course he/she does not complete.
6. A “W” will appear as a final grade on a student’s transcript.

**Independent Study**

Senior students may enrich his/her educational program by designing a sound proposal for an independent study project and enlisting the interest of a faculty member who will act as the student’s mentor and project evaluator. Independent Study is reserved for projects and programs not currently offered at Pembroke High School. Students who are highly motivated and capable of sustaining independent work may apply for an independent study program of two (2) to four (4) credits if they meet the following guidelines:

1. Students must submit a detailed plan as to the learning goals of the independent study project, a schedule and timeline for completion of portions of the project, the resources to be utilized, and a description of the final product.
2. A faculty mentor, who has committed to supervising the independent project, will be identified to work with the student and together they will design a contract to meet the requirements of the study plan.

3. The principal will approve the contract documentation submitted by the student.

4. A copy of a signed contract with clear expectations and approvals must be filed in guidance.

5. Students in Independent Studies will receive letter grades each term from their faculty advisor and the Independent Study will be weighted as a college prep course.

6. Independent Studies that are focused on Advanced Placement curricula not offered at PHS will receive honors credit upon successful completion of the AP exam. Students are required to take the AP exam in order to receive honors credit for their independent study.

Student Assistants
Occasionally students may have an enrichment opportunity to assist a teacher or staff member during the school day. If a teacher or staff member is in need of a student assistant, the position and responsibilities will be communicated to the entire student body or posted in a common area for everyone to view. The staff person will select a student from a pool of students that indicated interest. Student work will be non-academic and graded pass/fail and will not be factored into GPA or receive credit. Student Assistant positions are scheduled by semester.

Senior Project
The Senior Project Mission statement aligns with the District Mission of ensuring student achievement through excellence in teaching and learning. Through the Senior Project, students will be afforded the opportunity to educate their peers on employment opportunities, community service opportunities, educational opportunities and/or creative endeavors.

Additionally, Senior Project aligns with Pembroke High School’s Mission Statement:

*In collaboration with students, staff, parents, and community members Pembroke High School provides a respectful supportive environment. We promote intellectual curiosity and varied learning opportunities through a challenging, standards-based curriculum that encourages civic responsibility and global awareness.*

As a senior at Pembroke High School, students will have the opportunity to complete a "Senior Project." The Senior Project culminates in fieldwork during the fourth term.

Seniors involved in Senior Project must:
1. Choose a topic/field of study
2. Select a community mentor within that field
3. Complete 25 hours of fieldwork, as well as 5 hours of journal writing each week
4. Produce, submit and maintain a portfolio
5. Deliver a final oral presentation summarizing their experience
Community Service
Graduation Requirement ~ 40 Hours
Pembroke High School is committed to the benefits of a Community Service Graduation Requirement. Students are required to demonstrate proof of forty (40) hours of community service during their time at Pembroke High School. Students are encouraged to engage in active experiences that benefit the Pembroke High School community, the community at large or even service on a wider scale. Examples of service may include, but are not limited to, the following:

- Tutoring peers or younger students in area schools
- Service through various religious affiliations
- Service to community agencies such as: Council on Aging and area food pantries.

Students are required to get signatures verifying their service. These forms can be found in the Guidance Office. Students then return the signed verification sheets to the Guidance Office where the hours are logged. A cumulative record is kept over the course of the student’s four years in high school. It is recommended that students complete ten (10) hours per year and turn a record of these hours into Guidance. It is our hope that the student and community will both benefit from this valuable experience.

National Honor Society
Membership in Pembroke’s Chapter of the National Honor Society is bestowed upon students in grades 11 and 12 who demonstrate outstanding scholarship, character, leadership, and service. In keeping with the national (not rounded) minimum standard for scholarship, students in the class of 2020 will be required to have a (3.7) weighted GPA for consideration and must maintain that minimum throughout the term of membership. The GPA requirements for the classes of 2017-2019 will remain at 3.3. Students who meet the scholarship requirement will have an opportunity to complete a form detailing their accomplishments in the areas of character, leadership, and service.

Career and Vocational Education
Pembroke Students interested in pursuing a program of Vocational-Technical or Agricultural studies in a state approved Chapter 74 school must submit a letter of intent to the Superintendent’s Office prior to April 1st of the preceding school year. Students may apply for entry into a career and vocational education program in the eighth, ninth, or tenth grade.

Special consideration will be given to interested Pembroke students who wish to enroll in vocational programs offered at Silver Lake Regional High School. These program offerings include Automotive Technology, Carpentry and Cabinetmaking, Conservation and Horticulture, Culinary Arts, and Metal Fabrication and Welding.

Students should see their school counselor for information regarding the availability and requirements of these programs.
### Out-Of-District Vocational School Checklist

1. Parent/Caregiver speaks to or meets with the school counselor to determine which Vocational Program he/she is interested in.
2. Parent/Caregiver contacts the out-of-district school to request an application.
3. Parent/Caregiver fills out and signs any required school forms for the application then submits the forms to the student’s school counselor.
4. Counselor mails the completed school forms for the application to the school, along with a copy of the transcript and necessary recommendations. (Students must request recommendations.)
5. Student fills out and submits application directly to the vocational school of choice.
6. Parent/Caregiver must send a letter of request to the Superintendent by April 1st.

Mail to:

Superintendent  
Pembroke Public Schools  
72 Pilgrim Road  
Pembroke, MA 02359

### Guidance Department Mission Statement

The School Counseling Department at Pembroke High School advocates for all Pembroke High School students and develops relationships within the community. Counselors help to guide and support students with their academic planning, personal/social development and with college and career readiness. By taking a holistic approach of collaboration with students, parents, faculty and community members, counselors will assist students with post-secondary goals while preparing them to become successful and active members of their community.

### PHS Guidance Department Core Values

- Value all PHS students and families
- Respect for human differences
- Be knowledgeable and current in all aspect of Professional School Counseling
- Be approachable and accessible to all students and families.

### Guidance Department Curriculum and Services

Counselors meet and work with students and families for a variety of reasons, including but not limited to academics, social/emotional issues, college and career planning. Services are delivered in a variety of ways, including but not limited to individual counseling, group counseling, guidance seminars, parent and community evening meetings and morning coffees, parent and teacher consultation, phone, email, and the PHS Guidance Department website.

The Guidance Department uses a 21st century lab for guidance counselors to teach seminars related to academics, Naviance, post-secondary planning or other important topics. These include evening meetings and morning coffee and conversations on many topics related to student’s academic and post-secondary planning. In addition, parents are encouraged to contact their child’s guidance counselor and to sign up in Naviance to assist their child with college and career planning.
The Guidance Department also organizes student centered activities. Underclassman Awards Night, Senior Awards Night, the PHS College Fair, Career Fair, Post-Secondary Options Fair, Decisions Days, Financial Aid Night, Post-Secondary Planning Night, post-secondary related field trips, and Freshmen Orientation are annual events for PHS students. In addition, the Department has provided important information during school wide advisory time, and consults with other faculty members during regular Student Support Team (SST), Academic Success Team (AST), Crisis Team, Individual Education Plan (IEP) and in 504 accommodation plan meetings.

Guidance Resources
The Career Center in the guidance office serves as an educational resource for students and their parents/caregivers. Information containing up-to-date post-secondary education, military, and career information are available. College admissions representatives from various schools also visit the high school throughout the fall and winter at our college fairs and through our Decision Days, giving our students an opportunity to learn more about each college, ask individual questions and even apply and get accepted to area community colleges. Guidance updates are posted on our website, on the two guidance bulletin boards, in school-wide email blasts, during morning announcements and in the PHS monthly newsletter. Other important information is emailed to students and announced during the school day.

Guidance Seminars
All students meet with their school counselor in small groups and individually at scheduled times throughout the school year. A guidance calendar and student timeline detailing these times can be found on the Guidance website. These seminars are designed to address the academic and developmental needs of students as they progress through high school.

Freshmen Seminar – The primary focus is to help students have a smooth transition to Pembroke High School and to develop and enhance a relationship with their counselor. Information that will be provided to students during seminars include graduation requirements, grading policies, credits, GPA, transcript review, teacher expectations, general high school procedures and an introduction to college and career planning through our internet based college planning program Naviance.

Sophomore Seminar – Students will use Naviance and other software programs to explore personality types, learning styles, career matches, possible college selections, and job skills. Students are presented with an overview of the college planning timeline, and standardized testing preparation: MCAS, PSAT, SAT, etc. Students will also be encouraged to get involved in community service and extracurricular activities.

Junior Seminar – Juniors meet with their school counselor individually and in small groups to focus on post-secondary planning, with an emphasis on college admissions. Students will continue to use the Naviance program for college searches, understanding college eligibility and requirements, career exploration, and military options. In addition, students will be encouraged to create a list of possible colleges or schools of interest to visit during the spring of their junior year and in the summer before their senior year.
**Senior Seminar** – Seniors meet individually and in seminars with their school counselor throughout the first semester to review and finalize their college and/or post high school plans. Counselors review information on the college application process; which includes completing applications, composing admissions essays, conducting interviews, obtaining letters of recommendation, and completing standardized testing requirements. Counselors also provide information on financial aid and scholarship opportunities. Students who do not wish to pursue college after graduation will work individually with their counselor to develop their post-secondary school plans.
Potential Pathways

There is no one, single way to make decisions on a course sequence or pathway for college. Below are some examples of pathways and areas that you may want to consider an honors, AP course or additional coursework. Making good career decisions is based on your interests, skills, values & personality. Your course level will be determined by the amount of effort, time and work you want to dedicate to your academics.

Business Pathway

*Please see Program of Studies for additional elective opportunities (including Music/PE/Art)*

* Freshmen are required to take one semester of PE/Wellness
Engineering/Science Pathway

This example below is a sample pathway, there may be other classes that are a better fit for a student. Areas shaded in gray are subjects that may be important to emphasize.

<table>
<thead>
<tr>
<th>Grade</th>
<th>English</th>
<th>Math</th>
<th>Science</th>
<th>History/Soc. Studies</th>
<th>World Language</th>
<th>Potential Electives</th>
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<tbody>
<tr>
<td>Grade 9</td>
<td>Genre Studies</td>
<td>Algebra I</td>
<td>Geometry</td>
<td>Biology</td>
<td>World History</td>
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<td>Grade 10</td>
<td>World Literature</td>
<td>Geometry</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>US History I</td>
<td>World Language</td>
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<tr>
<td>Grade 11</td>
<td>American Literature</td>
<td>Algebra II</td>
<td>Pre-Calculus</td>
<td>Physics</td>
<td>US History II</td>
<td>World Language</td>
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<tr>
<td>Grade 12</td>
<td>Senior Seminars</td>
<td>Pre-Calculus</td>
<td>Calculus/ AP Calculus AB or AP BC</td>
<td>AP Chemistry or AP Physics</td>
<td>4th year history</td>
<td>4th year</td>
</tr>
</tbody>
</table>

*Please see Program of Studies for additional elective opportunities (including Music/PE/Art) *
Freshmen are required to take one semester of PE/Wellness

Law/Government Pathway

The example below is a sample pathway, there may be other classes that are a better fit for a student. Areas shaded in gray are subjects that may be important to emphasize.

<table>
<thead>
<tr>
<th>Grade</th>
<th>English</th>
<th>Math</th>
<th>Science</th>
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<td>Genre Studies</td>
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<td>Chemistry</td>
<td>US History I</td>
<td>World Language</td>
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<td>Grade 12</td>
<td>Senior Seminars</td>
<td>Pre-Calculus</td>
<td>AQR</td>
<td>Calculus</td>
<td>Forensics</td>
<td>AP Gov’t &amp; Politics</td>
</tr>
</tbody>
</table>

*Please see Program of Studies for additional elective opportunities (including Music/PE/Art) *
Freshmen are required to take one semester of PE/Wellness.
Nursing/Life Sciences Pathway

The example below is a sample pathway, there may be other classes that are a better fit for a student. Areas shaded in gray are subjects that may be important to emphasis.

<table>
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<tr>
<th>Grade 9</th>
<th>English</th>
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<th>Science</th>
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<table>
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<tr>
<th>Grade 10</th>
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<tr>
<td>Senior Seminars</td>
<td>Pre-Calculus or AQR</td>
<td>Calculus</td>
<td>AP Biology or Anatomy &amp; Physiology</td>
<td>Psychology &amp; Sociology</td>
<td>4th year World Language</td>
<td></td>
</tr>
</tbody>
</table>

*Please see Program of Studies for additional elective opportunities (including Music/PE/Art)
* Freshmen are required to take one semester of PE/Wellness

Liberal Arts Pathway

For students that are unsure of a career path or looking for a well-rounded curriculum, the example below is a sample pathway, there may be other classes that are a better fit for a student. Areas shaded in gray are subjects that may be important to emphasize.

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<td>Senior Seminars</td>
<td>Pre-Calculus or AQR</td>
<td>Calculus</td>
<td>Marine Biology</td>
<td>AP Psychology or Psych &amp; Soc.</td>
<td>4th year World Language</td>
<td></td>
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</table>

*Please see Program of Studies for additional elective opportunities (including Music/PE/Art)
* Freshmen are required to take one semester of PE/Wellness
Art Program

Introduction

Students in the Visual Arts Education Program experience a comprehensive and sequential curriculum taught by certified art education specialists, balanced with electives in specialized areas. Students will learn about the work of great world artists in all cultures and develop an appreciation for their contributions to world civilization. Course offerings are established based on the standards contained in the Massachusetts Arts Curriculum Frameworks. Standards for Visual Arts include:

- Methods, Materials, and Techniques
- Elements and Principles of Design
- Observation, Abstraction, Invention, and Expression
- Drafting, Revision, and Exhibiting

Scope and Sequence

<table>
<thead>
<tr>
<th>Grade</th>
<th>Full Year</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 9</td>
<td>Honors Studio Art I</td>
<td>Digital Arts I, Digital Arts II, Ceramics, Studio Art I, Digital Photography</td>
</tr>
<tr>
<td>Grade 10</td>
<td>Honors Studio Art I, Studio Art II, Honors Pre-AP Studio Art</td>
<td>Digital Arts I, Digital Arts II, Digital Arts II, Ceramics, Multi-Media Design, Digital Photography</td>
</tr>
<tr>
<td>Grade 11</td>
<td>Introduction to 3D Animation, Studio Art II, Honors Pre-AP Studio Art, Portfolio Preparation</td>
<td>Digital Arts I, Digital Arts II, Digital Arts II, Ceramics, Multi-Media Design, Painting, Digital Photography</td>
</tr>
</tbody>
</table>
Art Course Offerings

CERAMICS

Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

This course will provide students with the visual art experience in a three dimensional medium and the basics of building with low-fire clay. Students will work from life and imagination as they learn basic clay techniques. Emphasis will be placed on hand building, a good sense of craftsmanship, design, and the proper use of materials and tools. Course content will cover the properties of clay; and include pinch, coil, slab, and other hand building techniques. Ceramic decoration will incorporate glazing and scraffito techniques. Students will demonstrate art production and will be making cultural and historical connections between art history and context in ceramic arts.

DIGITAL ARTS I

Grades: 9, 10, 11, 12
Semester Course
Credit: 2
Level: CP

Digital Arts I is an introductory digital art and graphic design course. In this course, students will focus on the understanding of two key design programs – Adobe Illustrator and Photoshop CC 2019. These two sophisticated high-powered drawing and imaging software programs are used by graphic designers and digital artist world-wide. Students will use their digital tools and the Elements & Principles of Art and Design to tackle a series of projects focused on visual communication and expression such as movie posters, logo designs and album covers. Students will work as Graphic and Advertising Designers, Illustrators and Digital Artists in a collaborative studio setting. Additional opportunities will be given to explore Animation, Augmented Reality and other S.T.E.A.M. projects.

DIGITAL ARTS II

Grades: 9, 10, 11, 12
Semester Course
Credit: 2
Level: CP
Prerequisite: Successful completion of Digital Arts I

This course is a continuation of Digital Arts I. Students will continue to grow their visual communication skills in Adobe Illustrator and Photoshop CC with a deeper look into the Principles of Art & Design and applications of software tools. Students will explore layering with 2D and 3D imagery as they expand upon their knowledge of digital painting tools and compositional techniques. Students will learn to use the Wacom Tablets, access a variety of online, interactive resources and discuss works using design terminology. An emphasis will be placed on portfolio development.
DIGITAL ARTS III

Grades: 10,11,12
Semester Course
Credit: 2
Level: CP
Prerequisite: Successful completion of Digital Arts II

This course is a continuation of Digital Arts II. Students will build upon the knowledge and skills acquired in Digital Arts I and II to create a variety of multi-page designs. In this course students will focus on commercial art and design industry standards, Adobe Photoshop and Illustrator CC 2019 in addition to others within the creative suite. With these platforms, students will incorporate special text effects, vector graphics, raster graphics, and layering techniques to solve a variety of graphic-design problems and design for a variety of screen platforms. Students will learn to create successful design projects such as package design, product branding and advanced illustrations. Student will be assessed on each unit and a culminating online design portfolio.

DIGITAL PHOTOGRAPHY

Grade: 9,10,11,12
Semester
Credits: 2
Level: CP
No Prerequisite Required

Students in this class will learn the basics of capturing, organizing, editing/manipulating compositing and sharing images made using digital cameras, tablets, smartphones and computers. In learning to navigate the “digital darkroom” of Adobe Photoshop, Bridge and Lightroom software applications, students will gain experience using the tools of both commercial and fine art photography. Digital works will not only demonstrate strong composition and technical skills but also reveal solid narrative content. In learning to analyze and discuss images using arts vocabulary, students will begin to develop their own original styles.

STUDIO ART I

Grades: 9, 10, 11
Semester Course
Credits: 2
Level: College Prep

Studio Art I is a continuation of Fundamentals of Art and will build on the basic drawing skills, vocabulary, and techniques previously presented. Lessons will continue to focus on representational work through observational drawing, but will expand on media and technique. The elements of value, space and color will be introduced, as well as the design concepts of emphasis and composition. As with all studio art courses, Studio Art I will encourage personal artistic growth through critical thinking and risk taking. The Art Talk text will be used in class.
HONORS STUDIO ART I

Grade: 9, 10
Full Year Course
Credits: 4
Level: Honors
Prerequisite: Teacher recommendation only

This course offers an in-depth study of design through repeated use of the Elements and Principles of Art, while expanding technical abilities. Composition, creative thought, and illusion of depth are art challenges that will be addressed through a variety of means. Materials that will be explored are drawing, painting, printmaking, mixed media, etc. Abstract, observational, and inventive works may demonstrate artistic expression. Students will be required to keep a sketchbook and portfolio.

STUDIO ART II

Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: College Prep

Prerequisite: Successful completion of Studio Art I or teacher recommendation

Studio Art II students will continue to develop drawing skills but will explore new media, techniques, and concepts. Painting media and techniques and printmaking will be introduced. Students will have more opportunity to develop their personal style while still drawing from observation. Students will explore basic aspects of critique and will be expected to discuss the formal qualities of their work and the work of others. A sketchbook is required.

HONORS PRE-AP STUDIO ART

Honors Pre AP Studio Art

Grades: 10 and 11
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Honors Studio Art I or teacher recommendation

This course will prepare students who are planning on take AP art the following year. It is for students who have an interest in pursuing visual arts at a college level. It offers an in-depth, intensive study of design through repeated use of the Elements and Principles of Art, while expanding technical abilities. Composition, creative thought, and illusion of depth are art challenges that will be addressed through a variety of means. Materials that will be explored are pen and ink, scratch board, drawing, painting, printmaking, 3-D sculpture, and mixed media. Abstract, observational, and inventive works may demonstrate artistic expression.
AP STUDIO ART: 2D DESIGN PORTFOLIO

Grades: 11 and 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in Pre AP Studio Art, honors

AP Studio Art is a course designed for students who are seriously interested in the practical experience of art. The course is based on the submission of a portfolio to the College Board. The AP Art Portfolio should reflect quality work, concentration on a particular visual interest or problem and the need for breadth of experience in the formal, technical, and expressive means of the artist. This course encourages students to become independent thinkers who will contribute inventively and critically to their culture through the making of art.

MULTI-MEDIA DESIGN

Grades: 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

This course is a graphic arts course that offers an introduction into web design as well as introduce students to various animation and interactive design programs and techniques. Adobe Photoshop, Adobe Animate and Dreamweaver will be the programs used within the course. Some examples of design projects in this course will be to create a website using Dreamweaver to organize files, import elements, create layouts and edit and link pages. Students will also learn to create animated gif files through Adobe Photoshop. Adobe Animate will be used to create 2D animations while also incorporate interactivity to their projects. Students will also learn to create designs for mobile devices. This is a visual art and design based course and is focused towards students interested in pursuing a career the visual and graphic arts.

PAINTING

Grades: 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Prerequisite: Successful completion of Studio Art I or teacher recommendation

This course is designed to introduce students to the fundamentals of painting using a variety of painting media. Emphasis will be placed on color and composition while integrating new applications of paint techniques. Students will work from observation and explore imaginative themes. Projects are designed to accommodate a range of student abilities. Course content will include color theory and value, watercolor techniques, color mixing and blending, and acrylic and watercolor painting techniques. Students will be responding to their artwork through written and oral, self, peer, and teacher evaluation.
PRINTMAKING

 Grades: 10, 11, 12
 Semester Course
 Credits: 2
 Level: College Prep

 Prerequisite: Successful completion of Studio Art I or teacher recommendation

 In this course students will be introduced to a variety of artistic printmaking skills. Students will work from life and imagination as they learn and explore different printmaking techniques. Techniques introduced include calligraphy, mono-printing, linoleum, dry point and intaglio, as well as other printing methods. Students will be responding to their artwork through both written and oral, self, peer, and teacher evaluation. Course content will include the proper use of vocabulary, materials, and tools associated with the medium and will include elements of color theory. Printmaking will encourage personal artistic growth through critical thinking and risk taking.

INTRODUCTION TO 3D ANIMATION

 Grades: 10, 11, 12
 Full Year Course
 Credits: 4
 Level: College Prep

 This course teaches students to build and create characters and sculpt geometry in a three dimensional computer generated environment using the program Autodesk Maya. This is the same software used by professional movie and video game companies such as Disney and Epic. Students will learn to make short animations creating everything from character and set design to lighting and camera set up. Students will learn the skills needed to create 3D characters, scenes, animations and short films. Student assessment in this course will be project based with a culminating portfolio. Additional opportunities will be given to explore Augmented Reality, Virtual Reality and Motion Capture technology.

PORTFOLIO PREP

 Grades: 11, 12
 Full Year Course
 Credits: 4
 Level: College Prep

 Prerequisite: B- or better in Studio Art I and Studio Art II or teacher recommendation

 Students will continue to create mostly representational artwork from observation and develop a personal style through investigation of technique and media possibilities. Assignments will encourage students to think independently and incorporate stylization, symbolism or personal statements into their work. Design Elements and Principles will be reinforced using student work as well as fine art as examples, and appropriate vocabulary and format for critiques (both verbal and written) will be taught. Students will be encouraged to create work that shows evidence of critical thinking and visual organization. Concurrent sketchbook work is mandatory so that the development of ideas and design can be observed. All lessons will encourage artwork that shows solid drawing, advanced design, and a quality finished product suitable for a visual portfolio for college admissions or for students who wish to enroll in Art Major class. Students will be required to maintain a portfolio.
HONORS ART MAJOR

Grade: 12
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Portfolio Preparation and teacher recommendation

This rigorous course is intended for students who have a serious interest in pursuing art at the college level. Students will be required to produce and compile an extensive art portfolio that is based on the criteria set forth by college requirements. Students will be required to demonstrate, via projects, their acquired artistic skills, knowledge, and techniques. Students electing to take Art Major will be required to do extensive independent work outside of class time. Students will be challenged to demonstrate their understanding of various genres and artists, and to make connections between art and the historical context. Students will be expected to produce high quality artwork, participate in written and verbal critiques, and keep a sketchbook. Students will be required to complete in local and regional art contests and maintain a portfolio.

3D PRINTING & PRODUCT DESIGN

Grades: 10, 11, 12
Year Course
Credit: 4
Level: CP
Prerequisite: Successful completion of Digital Arts I

In this course, students will learn how to develop their own products from concept to 3D printed prototype using state of the art 3D Printers and Autodesk Fusion 360, Tinkercad and other 3D design software. Projects will include a personalized keychain, a USB drive, a chocolate mold, real world challenges and a final project based on students’ passions. With a thorough overview of User Experience Design and Design Thinking, students will learn how to design for others and will experience practical applications within the design and engineering fields. Students will develop a portfolio of individual and group solutions in both 2D and 3D form that demonstrate their critical and creative problem-solving abilities, design experience and skills with technology.

3 D DESIGN

Grades: 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Prerequisite: Successful completion of Studio Art I or teacher recommendation

The objective for this course is to provide students with knowledge and understanding of the technical processes and vocabulary associated with three-dimensional art forms. A variety of mediums will be explored, which may include ceramics, paper, plaster gauze, Tape, Paper Mache, wire sculpture, and recycled materials. Students will become familiar with the tools and techniques necessary in creating three-dimensional forms and safe studio practices. Students will participate in a wide range of experiences using additive or subtractive sculptural techniques designed to build artistic and creative confidence. An appreciation for art from various cultures will be developed. Students will learn to utilize the visual elements and design principles in creating three dimensional forms.
Business Program

Introduction

The Business Program offers students the opportunity to acquire unique knowledge and skills needed to excel in college and/or the business world. Students enrolled in these programs will be expected to read, write, and communicate effectively by defining, analyzing, and solving a problem posed by a case study. Students will learn and be able to demonstrate personal, civic, and social skills while studying and working effectively in team building activities. Computer technology is integrated throughout the business curriculum.

Scope and Sequence

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<td>• Introduction to Marketing</td>
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Business Course Offerings

**EXPLORING BUSINESS**

*Grades: 9, 10*
*Semester Course*
*Credits: 2*
*Level: College Prep I*

In this course students will be introduced to the world of business and what opportunities the business world has to offer. Several topics will be covered including introduction to economics, business ownership, business ethics, technologies impact on business and introduction to marketing. Presentation skills will be emphasized in the class and students are required to present their projects to the class. Group work and “learn by doing” techniques are employed throughout this semester course. Technology will be used throughout the course to reinforce learning.

**INTRODUCTION TO ACCOUNTING**

*Grades: 10, 11, 12*
*Semester Course*
*Credits: 2*
*Level: College Prep I*

This introductory course is designed to help students understand the basic principle of the accounting cycle for a small business. Students will learn about debits and credits, journalizing, posting to the ledger, closing entries and building financial statements. Technology is used daily in the class. An online business simulation is completed at the end of the semester to reinforce students' learning. Students who enjoy math and want an understanding of how a business accounting process works will benefit from this class. This course will also be of great value for students thinking about majoring in business or accounting and taking college-level classes.

**INTRODUCTION TO MARKETING**

*Grades: 11, 12*
*Semester Course*
*Credits: 2*
*Level: College Prep I*

This introductory course is designed for the student interested in learning the various aspects of marketing and business operations. This course provides an overview of the 4Ps: product, price, place and promotion. Students will explore consumers’ buying motives, pricing strategies, distribution channels and SWOT analysis. Students will create a Marketing Plan for a new product and present the plan to the class. Presentation skills are greatly emphasized in this class and all students will be required to present their projects. This class will be of a great value to students thinking of majoring in business or marketing in college.
FINANCIAL LITERACY

Grade: 11, 12
Semester Course
Credits: 2
Level: College Prep 1

This course is designed to help students learn how to manage their personal finances and make smart financial decisions when they graduate from high school. Students will learn about debt and how to make the best financial decision when it comes to selecting a school, car or housing loan. The basics of banking, balancing a checkbook, analyzing a credit report and credit cards will be discussed. This course will also explore creating budgets, developing long-term financial plans to meet goals, and making responsible choices about income and expenses. This class will offer students various opportunities to apply the concepts covered in the course through interactive technology-based simulation like Virtual Business: Personal Finance® and The Stock Market Game challenge where students evaluate and make investing decisions.

HONORS STRATEGIC MARKETING & ENTREPRENEURSHIP

Grade: 11, 12
Year Long Course
Credits: 4
Level: Honors

This full year course is designed to help students gain an in-depth understanding of the marketing function and business ownership. The goal of this course is to provide students with the critical and creative skills needed to analyze, evaluate and develop effective marketing and business plans. Throughout this project based class, students will have the opportunity to develop their own new product and learn how to advertise, promote, and sell it to consumers. Students will also evaluate the concepts of going into business for themselves or operating a small business. Emphasis is on the exploration of feasible ideas of products/services, research procedures, business financing, marketing strategies, and access to resources for starting a small business. In addition, the impact of social media on advertising and branding will be explored. Students develop components of a business plan and evaluate startup requirements. This course will have a strong emphasis on communication and presentation skills. Students will be required to articulate their ideas via oral presentations and interactive role plays. Students will independently complete a research paper and a research based project in an area of business marketing to be presented to the class. This class is for the serious business student and enrollment in the DECA club is highly recommended. Students who are majoring in marketing or business in college will benefit from this class.
English Program

Introduction

The English Department is committed to the development of literate and insightful readers, writers, speakers, and listeners. In all courses students are expected to write frequently, listen and speak articulately, and to read a variety of challenging literary works including those of literary non-fiction. We believe that critical and creative thinking is integral to adult literacy; therefore, we ask students to respond to literature at thoughtful and increasingly abstract levels. Our primary goal is to develop students’ ability to acquire, integrate, and synthesize knowledge essential to literacy and English Language Arts, as defined by the Massachusetts Curriculum Frameworks. To this end, we offer a rigorous core curriculum, as well as literacy labs and electives for enrichment.

We follow the Massachusetts Curriculum Frameworks for English Language Arts that holds high skill and performance expectations for all students. Our program is framed around the principles that an effective English language arts and literacy curriculum:

- develops thinking and language together through interactive learning.
- draws on literature and literacy non-fiction in order to develop students’ critical and creative thinking about the texts as well as the world around them.
- emphasizes writing argument, exposition, and narrative for a variety of purposes and audiences.
- provides explicit skill instruction in reading, writing, speaking and listening.

Four years of English are required in order to fulfill the requirements for graduation. In addition, students in grade 9 and 10 may be assigned to an additional literacy lab to target specific common core skills.
Scope and Sequence

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<thead>
<tr>
<th>Grade</th>
<th>Core Courses</th>
<th>Electives</th>
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| Grade 9  | • Genre Studies & Composition  
           • Literacy Enrichment for High School Success | • Intro to Journalism (Grades 9-12)  
                                       • Shaping the 21st Century Leader (9-12) |
| Grade 10 | • World Literature  
           • Literacy Enrichment for High School Success | • Speech & Debate (Grades 10-12)  
                                       • Creative Writing (Grades 10-12)  
                                       • Student Publications (Grades 10-12)  
                                       • Shaping the 21st Century Leader (9-12) |
| Grade 11 | • American Literature  
           • AP: Language & Composition | • Shaping the 21st Century Leader (9-12) |
| Grade 12 | • AP: Language & Composition  
           • AP: Literature & Composition  
           **Senior Seminar Semester Courses:**  
           • Humanities & Philosophy  
           • Contemporary Issues  
           • Graphic Novels  
           • Medieval Literature  
           • Poetry  
           • Science Fiction & Dystopian Literature  
           • Sports Literature, Media & Writing  
           • Survival and Adventure Literature  
           • Suspense, Mystery, & Horror Literature | • Business Writing and Presentation: Senior Project  
                                       • Shaping the 21st Century Leader (9-12) |
English Course Offerings

GENRE STUDIES AND COMPOSITION 35

Grade: 9
Full Year Course
Credits: 4
Level: College Prep

Prerequisite: Successful completion of English 8

This course uses a genre approach to literature and writing in which content is explored in depth. Students will examine author’s craft as they engage in close reading of novels, stories, poems, articles, and memoirs; they will respond through narrative, expository, and argumentative compositions. Students will analyze and discuss complex literary classics, and acquire knowledge of the human experience. In addition to the Grade 9 Collections textbook, some required texts may include Romeo and Juliet, The Odyssey, The Secret Life of Bees, Of Mice and Men, and To Kill a Mockingbird. Projects in this class incorporate the arts, technology, research, and public speaking skills. Writing portfolios will reflect process writing of long and short compositions as well as in-class essays.

HONORS GENRE STUDIES AND COMPOSITION 33

Grade: 9
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Accelerated English 8 or A- in English 8 or teacher recommendation.

This course uses a genre approach to literature and writing in which content is explored in depth at an accelerated pace. Students will examine author’s craft as they engage in close reading of novels, stories, poems, articles, and memoirs; they will respond through narrative, expository, and argumentative compositions. Students are challenged to read, analyze, and discuss complex literary classics and acquire knowledge of the human experience. In addition to the Grade 9 Collections textbook, some of the required anchor texts may include Great Expectations, Romeo and Juliet, The Odyssey, Lord of the Flies, Of Mice and Men, and To Kill a Mockingbird. Projects in this class incorporate the arts, technology, research, and speaking skills. Writing portfolios will reflect process writing of several long and short compositions as well as in-class essays.

LITERACY ENRICHMENT FOR HIGH SCHOOL SUCCESS 36

Grade: 9, 10
Semester Course
Credits: 2

Prerequisite: Teacher recommendation only

This course is designed to assist any student who would benefit from additional focus on literacy skills through his/her freshman and/or sophomore year transition into the more rigorous demands of independent high school coursework. Students will learn and apply a variety of reading strategies for comprehension of specific genres and subject areas. There will be focus on response writing in both long and short compositions across the curriculum to facilitate higher achievement in all class assessments. Time will be dedicated to test item attack skills as well as test preparation techniques. Students will also continue to build reading fluency and vocabulary development through daily practice of silent sustained reading, and they will develop individual and group presentation skills essential for success as 21st century students and citizens.
WORLD LITERATURE

Grade: 10  
Full Year Course  
Credits: 4  
Level: College Prep

Prerequisite: Successful completion of Genre Studies and Composition

This class is recommended for students who have demonstrated their ability to successfully complete significant independent reading and writing at grade level as determined by the Massachusetts Curriculum Frameworks for English Language Arts. In this college preparatory course, students will extend their reading, writing, and communication skills. In exploration of literary works that spans centuries and continents, students will identify and analyze universal themes of the human experience. Anchor texts of this class may include, *The Kite Runner, Animal Farm, Macbeth, Julius Caesar, Night, Black Boy, A Farewell to Arms*, as well as selected nonfiction, short stories, and poetry. Narrative, expository and argumentative compositions will further demonstrate students’ continued development as critical thinkers. Writing portfolios will reflect process writing of several long and short compositions as well as in-class essays.

HONORS WORLD LITERATURE

Grade: 10  
Full Year Course  
Credits: 4  
Level: Honors

Prerequisite: B- or better in Honors Genre Studies and Composition or A- in Genre Studies and Composition CP or teacher recommendation.

This course is designed for students who have demonstrated, through performance, diligence, and interest, the ability to achieve at a level that exceeds the Massachusetts Curriculum Frameworks for English Language Arts at this grade level. Literary and nonfiction texts span centuries and continents as students further their conceptualization of the human experience. Course texts may include such works as *The Kite Runner, Animal Farm, Macbeth, The Count of Monte Cristo, Les Miserables, A Farewell to Arms, Night, Black Boy, Antigone*, and selected short stories and poetry from *Elements in Literature*. Students will create and present projects that incorporate the arts, technologies, and public speaking skills. Narrative, expository and argumentative compositions will further challenge students to demonstrate increasingly sophisticated ideas with clarity, style, and insight. Writing portfolios will reflect process writing of several long and short compositions as well as in-class essays.

AMERICAN LITERATURE

Grade: 11  
Full Year Course  
Credits: 4  
Level: College Prep

Prerequisite: Successful completion of World Literature

This class is recommended for students who have demonstrated their ability to successfully complete significant independent reading, writing, and critical thinking at grade level as determined by the Massachusetts Curriculum Frameworks English Language Arts. Student will read a variety of mentor texts and supplemental works (stories, poems, memoirs, essays, plays, and seminal U.S. documents) that reflect the diverse voices of American culture from the Colonial period through current times. Connections will be made to students’ own experience and social responsibility as they consider what it means to be an American. This course requires extensive independent reading and writing, informed discussion seminars, and formal public speaking. In addition, students’ knowledge of vocabulary and language conventions will be further developed and applied in written and oral communication. Narrative, expository, and argumentative compositions will further demonstrate students’ continued development as critical thinkers and competent writers. Writing portfolios will reflect process writing of several long and short compositions as well as in-class essays.
HONORS AMERICAN LITERATURE

Grade: 11
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Honors World Literature or A- in World Literature CP or teacher recommendation.

This course is designed for students who have demonstrated, through performance, diligence and interest, the ability to achieve at a level that exceeds the Massachusetts Curriculum Frameworks for English Language Arts at this grade level. Student will read a variety of mentor texts and supplemental works (stories, poems, memoirs, essays, plays, and seminal U.S. documents) that reflect the diverse voices of American culture from the Colonial period through the present day. This course requires extensive independent reading and writing, informed discussion seminars, and formal public speaking. In addition, students’ knowledge of vocabulary and language conventions will be further developed and applied in written and oral communication. Narrative, expository and argumentative compositions will further demonstrate students’ continued development as critical thinkers and competent writers. Writing portfolios will reflect process writing of several long and short compositions as well as in-class essays.

AP ENGLISH LANGUAGE AND COMPOSITION

Grades: 11, 12
Full Year Course
Credit: 4
Level: Advanced Placement

Prerequisite: B- or better in AP Literature, B or better in Honors World Literature or Honors American Literature, or A in World Literature CP or American Literature CP and teacher recommendation.

This course is designed by the College Board to challenge students who are academically ready and motivated to move beyond an accelerated high school curriculum to what is essentially a college level survey course on rhetoric and nonfiction. This course is suitable for students who wish to pursue careers in any of the major academic disciplines. Students at this level are expected to already be strong and motivated readers, critical thinkers and successful high school writers. Summer coursework is required. While promoting writing in many contexts for a variety of purposes, the English Language course is the place where nonfiction texts and contexts take center stage. Here students think deeply about language as a persuasive tool and about the dynamic relationship of writer, context, audience, and argument. Students enrolled in this course can expect to be challenged with a wide selection of nonfiction readings, including biography and memoir, speeches and letters, and essays. Students should be able to read several texts simultaneously, and should be prepared for a rigorous amount of writing in response to those texts. All students enrolled in this course will take the College Board’s AP Language and Composition exam in May.
AP ENGLISH LITERATURE AND COMPOSITION

Grades: 11, 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in AP Language, B or better in Honors World Literature or Honors American Literature, or A in World Literature CP or American Literature CP and teacher recommendation.

This course is designed by The College Board to challenge students who are academically ready and motivated to move beyond an accelerated high school curriculum to what is, essentially, a college level survey course on literary analysis and composition. Students at this level are expected to already be avid readers, critical and creative thinkers and successful writers. Summer coursework is required. During the year, students are required to read extensively in contemporary and classic literary genres from authors such as Joyce, Shelley, Dostoevsky, Shakespeare, Stoppard, Chaucer, Milton, Ibsen, and Achebe and to analyze works through a variety of critical lenses. In addition to writing extensive critical analyses and timed essays, students will compose creative, argumentative, and reflective pieces, to be included in a senior writing project. All students enrolled in this course will take the College Board’s AP Literature and Composition exam in May.

SENIOR SEMINARS

Senior Seminars—Enrollment in two semester-long senior seminars meets the Grade 12 ELA requirement.

Pembroke High School’s senior seminars are modeled after post-secondary literature and humanities classes. Students in these multi-leveled classes will participate in a series of discussion protocols, probing each course’s overarching essential question(s), as they delve into genre-specific topics of study. Further development of ideas will be addressed through narrative, expository, and argument essays and project-based assignments. Assessments will be differentiated to accommodate students’ learning styles and abilities, maximizing construction of new knowledge through active engagement, effort, and perseverance. Students choosing to enroll at the honors level may do so by signing an agreement to complete honors level coursework within the first two weeks of the semester.

Note: Students must earn a passing grade in both seminars to meet graduation requirements (i.e. the semester grades are not averaged).

CONTEMPORARY SOCIAL ISSUES

Grade: 12
Senior Seminar Semester
Credits: 2
Level: CP and Honors

This course is for students who wish to explore, discuss, and debate contemporary social issues including, but not limited to, war, immigration, wealth and class, race and ethnicity, international relations and conflict, gender issues, the role of government, and other issues debated by modern society. Students will read both fiction and nonfiction pertinent to these issues. Readings will include articles, speeches, poetry, music, dramas, and books. Anchor texts may include Redeployment, Where Men Win Glory: The Odyssey of Pat Tillman, David and Goliath, and A Doll’s House.
This course will investigate the literary value of the graphic novel and how this visual medium is used to explore society and the human condition. Beginning with *A Contract with God* by Will Eisner in 1978, graphic novels are now recognized as a legitimate literary medium for modern storytelling. Graphic novels like *Maus* by Art Spiegelman won the Pulitzer Prize in 1980. Moore and Gibbons’ *Watchmen* was recently named to Time Magazine’s list of Best Novels, *Persepolis* by Marjane Satrapi has been included on the “Best Books” list of numerous associations, libraries, and journals, and *The Dark Knight Returns* by Frank Miller has spawned a billion-dollar superhero movie industry. Other course titles may include *Beowulf* by Garth Ennis, *The Death of Captain Marvel* by Jim Starlin, manga titles such as *Akira* by Katsuhiro Otomo, and Sandman by Neil Gaiman.

**MEDIEVAL LITERATURE**

*Grade: 12*

*Senior Seminar Semester*

*Credits: 2*

*Level: CP and Honors*

Do you love tales of knights in shining armor rescuing damsels in distress? Do you long for days of courtly love and heroes adhering to a code of honor? This course highlights literature from medieval times, such as *The Once and Future King*, one of the many legends of King Arthur and the Knights of the Round Table; *The Canterbury Tales*, a collection of 24 tales of chivalric romances, moral allegories and low farce; and *Dante’s Inferno*, an epic comedic poem of Dante’s journeys through the nine circles of Hell. Additional content will encompass a wide range of sources, both traditional and contemporary, including excerpts from *Game of Thrones* and other novels, plays, poetry, and short stories. Students will trace the development of the English language through literature and see how language and literature are connected to the social and political atmosphere of the times.

**HUMANITIES AND PHILOSOPHY**

*Grade: 12*

*Senior Seminar Semester*

*Credits: 2*

*Level: CP and Honors*

Students will examine various philosophers throughout history and develop an understanding of contemporary philosophies and schools of thought. Using texts, the media, history, and literature students will further develop their ability to interpret and analyze various works. Through discussions, independent inquiry, analytical writing, and project based learning, students will hone critical thinking skills on abstract matters, while probing the course’s essential questions: How do human beings make meaning of their lives? How does philosophy help us to understand the relationship between the individual and society? What is true wisdom and does it change throughout time? Some more contemporary texts that may be explored include *Zen and the Art of Motorcycle Maintenance*, *The Tao of Pooh*, *The Little Prince*, *Hamlet*, and *10% Happier*. 
POETRY

Grade: 12
Senior Seminar Semester
Credits: 2
Level: CP and Honors

Students will delve into the study of poetry, gaining an understanding of its history and evolution as a literary genre, and demonstrate this understanding through application in seminar discussions, class presentations, and written work. Through research and close reading of a broad selection of poets and their works, students will investigate and evaluate authors’ use of specific conventions and devices, and examine their impact on meaning as integrated in particular forms and styles of poetry. Students will further explore and analyze poetry through application of critical theory. They will write evidence-based analyses, grounded in research; and share their findings in class discussions and oral presentations. In addition, students will compose their own poems, employing devices of their studies to compose well-crafted, individual poetry collections.

SCIENCE FICTION AND DYSTOPIAN LITERATURE

Grade: 12
Senior Seminar Semester
Credits: 2
Level: CP and Honors

Students will investigate dystopian themes in science fiction literature and how these themes are reflected in popular culture. Through the reading of selected novels, short stories and essays and viewing excerpts from some science fiction films and documentaries, students will sharpen their abilities to analyze, think critically, and make inter-textual and global connections as they probe how time and societal change impact literature. Anchor texts include 1984, Brave New World, and Fahrenheit 451. Through reading and analysis, students will identify and analyze how dystopian authors turn an inquisitive eye on their own societies through parody, satire, and irony. In response to texts and media, students will write expository, narrative, and argumentative essays.

SPORTS LITERATURE, MEDIA, AND WRITING

Grade: 12
Senior Seminar Semester
Credits: 2
Level: CP and Honors

Students will explore how authors have used sports as a focus in fiction and non-fiction writing. Students will read fiction and non-fiction novels such as The Natural and Friday Night Lights as well as essays, short stories, poetry, and sports columns and articles from current newspapers as part of the course. Stories and essays from noted writers such as Hemingway, Fitzgerald, Kerouac, Roth, Crews, Mailer, and Updike will be studied along with work by contemporary writers such as Dan Toughness, Rick Riley, Jackie Macmillan. Themes will include “Sports and the Individual”, “Sports as Part of a Team”, “Victory and Defeat” and “Sports as a Reflection of Society”. Students will respond to text in narrative, expository, and argumentative essays, exploring the changing field of sports writing.
SURVIVAL AND ADVENTURE LITERATURE

Grade: 12
Senior Seminar Semester
Credits: 2
Level: CP and Honors

Students will study the genre of non-fiction. By focusing specifically on stories of survival and adventure, students can engage in real-life stories of courage and perseverance. Students will read short, essay-length writings from *Massachusetts Disasters, Deep Survival* and various periodicals, as well as book length titles such as *In the Heart of the Sea* and *The Adventures of Alice in Wonderland*. Students enrolling in the course should be ready to read works that not only “tell good stories” but also draw on other disciplines such as history and science. Students will work individually and in groups to discuss, write responses to literature, and produce a final project.

SUSPENSE, MYSTERY AND HORROR LITERATURE

Grade: 12
Senior Seminar Semester
Credits: 2
Level: CP and Honors

Students will study how the literature of mystery, horror, and suspense has captivated audiences across time and culture. In this course we will look at classic and challenging long and short works such as *Frankenstein, Murder at the Rue Morgue, The Call of Cthulhu*, and *Dr. Jekyll and Mr. Hyde* and some horror and suspense stories from world literature as well as more contemporary works such as *The Firm* and *Nightshift*. We will examine the methods, devices, themes, and symbols authors use to create tension and conflict. We will explore a variety of literary styles including fiction and poetry and discuss the relationship between cultures, societies and its horrors and mysteries.

ELECTIVES

INTRODUCTION TO JOURNALISM

Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

This is a writing course which will include all aspects of newspaper production. Working together and individually, students will investigate, analyze, and write clearly and effectively about events in the school and surrounding community. Students will use the skills of reporting, editing, page design, news writing and available technology to produce and distribute the school paper. Students will be required to critically examine current news events and write in-depth news analyses. A culminating capstone project will be required at the end of each semester.
SHAPING THE 21ST CENTURY LEADER

Grade: 9-12
Semester Course
Credits: 2
Level: College Prep

Leadership Course Description-This course is designed to help students define leadership, and to help them develop a sense of themselves and others through research, class discussion, journal writing, group presentations, and literary-character analysis. Additionally, the leadership elective will encourage students to develop their leadership skills and practices by communicating effectively in partners, small groups, and teams. The students will be responsible for analyzing and refining their decision-making skills as a result of that group work, and they will be required to evaluate the differences between their personal vision and their group vision for projects. As a capstone requirement, students will complete a final project that demonstrates their ability to practice leadership through service. During this project, the students will appraise their community and their community’s needs, and they will demonstrate their leadership skills by serving their community and fulfilling their responsibilities as a citizen.

SPEECH AND DEBATE

Grade: 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Public speaking and debate skills are required in wide range of professions. This class is designed to help students gain confidence and skill in the area of public speaking and the art of persuasion. The course will focus on various styles of speech and on what elements make a speaker successful. A variety of debate formats will be explored, as well as the possibility of a speech and debate club or team.

CREATIVE WRITING

Grade: 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Students in this course will study the craft of writing creative non-fiction, poetry, and fiction, as they probe the essential questions: What does it mean to read like writer? How do writers develop and refine elements unique to their craft? How will skills I develop as a creative writer impact my writing in other disciplines? Using a college-level text, The Practice of Creative Writing by Heather Sellers, as an anchor text, the course will concentrate on developing observation and writing practices of renowned authors and poets. Students will explore the role of audience on determining tone and developing their own style and craft in a variety of creative writing forms. Revision is an inherent skill in developing any piece of writing, and will be a central focus of this course. Students will write daily in journals and/or in response to various writing prompts and exercises. Readings will be assigned from the text, discussions will reinforce concepts, and writing assignments will be given to practice the concepts and techniques studied. A requirement of this course is that all students publish at least one piece of writing in a public forum. In addition, all students will produce a final portfolio of polished drafts and reflections.
STUDENT PUBLICATIONS  

**HSENG703**

**Grades:** 10, 11, 12  
**Semester Course**  
**Credits:** 2  
**Level:** College Prep  

**Prerequisite:** *Successful completion of Introduction to Journalism*

Society’s need for news and information about local, national and world issues has never been greater, but the medium through which this news is transmitted has changed dramatically. This course will address the changing field of news reporting and journalism in the 21st Century. Writing for nonfiction student publications will be the focus of this course with an emphasis on local news briefs, in-depth researched news features, yearbook features and profiles and sports reporting. Writers will contribute work to the school newspaper, the Pembroke Sentinel, and the annual school yearbook. Analysis of modern journalism and reporting techniques will be examined through several non-fiction texts including *True Story: Murder, Memoir Mea Culpa, In Cold Blood* and *Nickeled and Dimed*. Other topics will include the fundamentals of press law and moral and ethical decision making, responsible editorial writing, and careers in journalism. Page layout and modern page design for print and the Internet will also be examined and used to produce regular feature pages for student publications.

BUSINESS WRITING AND PRESENTATION: SENIOR PROJECT  

**HSENG705**

**Grades:** 12, Second Semester  
**Semester Course**  
**Credits:** 2  
**Level:** College Prep  

Senior Project is a meaningful endeavor for those students who wish to gain some experience and knowledge in a field of interest related to a potential career. Senior project opens doors to possibilities that may not be discovered in a traditional classroom setting. This course is designed for Senior Project candidates who want to acquire the skills necessary to successfully navigate a business or vocational setting. Students will learn how to approach mentors to secure a mentorship, successfully present information in a business-like manner (PowerPoint, Prezi, etc.), assess the appropriate forms of written communication (formal letter, resume, email, texting, blogging), and hone interviewing skills. Course texts include *On Writing* by Stephen King and *100 Ways to Improve Your Writing* by Gary Provost.

ENGLISH FOR ELs  

**HSENG131**

**Grades:** 9-12  
**Semester Course**  
**Credits:** 2  

This course is designed for English Learners (ELs.) Content is aligned to the WIDA standards for English language development. Direct instruction is individualized to the student’s English language proficiency level as determined by initial language proficiency assessments at enrollment, as well as annual language assessments. Through this course, ELs will develop the necessary academic and social language skills, across the four language domains of listening, speaking, reading and writing, necessary for success in content area courses. This course is pass/fail.
Mathematics Program

Introduction

The primary goal of the mathematics program at Pembroke High School is to enable all students to achieve mathematical power through problem solving, communications, reasoning, and making mathematical connections. As defined by the National Council of Teachers of Mathematics, mathematical competency includes the ability to reason logically, communicate effectively about and through mathematics, and to connect ideas within mathematics, and between mathematics and other disciplines.

Mathematics is a living and changing discipline which has undergone many transformations and continues to change. Our teaching approach is designed to build mathematical power by having students actively engaged in their own learning. Exploration of a rich variety of topics is facilitated by the use of scientific and graphing calculators, and computer software.

Mathematics Pathways

The Pembroke Public Schools mathematics courses and pathways are based on the Model Courses presented in the 2011 Massachusetts Curriculum Framework for Mathematics (http://www.doe.mass.edu/frameworks/current.html). High school mathematics will culminate for many students during 12th grade with courses such as Pre-calculus and/or Advanced Quantitative Reasoning. Although this would represent a robust and rigorous course of study, some students will seek the opportunity to advance to mathematics courses beyond those included in the MA Framework (AP Calculus AB, AP Calculus BC, or Honors Calculus). Please note that there are pathways for students seeking the opportunity to complete Calculus in high school who wish to accelerate their study of mathematics.

Calculator Policy

Students in mathematics courses are strongly urged to have a graphing calculator. The predominant models currently used in the Mathematics Department are the TI-83 Plus and TI-84 Plus graphing calculators from Texas Instruments. Both of these calculators are permitted on the following standardized assessments: MCAS, PARCC, PSAT/NMSQT, SAT, ACT, and respective AP exams in mathematics and science. Students enrolled in AP Statistics and/or AP Calculus are required to have a TI-83 Plus or TI-84 Plus graphing calculator. Please feel free to contact your son/daughter’s mathematics teacher or the department chairperson with questions or concerns.
Scope and Sequence

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<td>• Applied Integrated Math II (CP II)</td>
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<td>• Cyber Security</td>
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Mathematics Course Offerings

**ALGEBRA I**

Grade: 9  
*Full Year Course*  
Credits: 4  
Level: College Prep I  

**Prerequisite:** *Successful completion of Math 8*

The fundamental purpose of Algebra I is to formalize and extend the mathematics that students learned in the middle grades. Instructional time will focus on four critical areas: (1) deepen and extend understanding of linear and exponential relationships; (2) contrast linear and exponential relationships with each other and engage in methods for analyzing, solving, and using quadratic functions; (3) extend the laws of exponents to square and cube roots; and (4) apply linear models to data that exhibit a linear trend. Standards for the course come from the following conceptual categories: Number and Quantity, Algebra, Functions, and Statistics and Probability.

**GEOMETRY**

Grade: 10  
*Full Year Course*  
Credits: 4  
Level: College Prep I  

**Prerequisite:** *Successful completion of Algebra I*

The fundamental purpose of Geometry is to formalize and extend students’ geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, presenting and hearing formal mathematical arguments. Instructional time will focus on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plan; (5) prove basic geometric theorems; and (6) extend work with probability. Standards for the course come from the following conceptual categories: Number and Quantity, Geometry, and Statistics and Probability.

**HONORS GEOMETRY**

Grade: 9  
*Full Year Course*  
Credits: 4  
Level: Honors  

**Prerequisite:** *B- or better in Accelerated Math 8 or teacher recommendation.*

The fundamental purpose of Geometry is to formalize and extend students’ geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, presenting and hearing formal mathematical arguments. Instructional time will focus on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plan; (5) prove basic geometric theorems; and (6) extend work with probability. Standards for the course come from the following conceptual categories: Number and Quantity, Geometry, and Statistics and Probability. Students enrolled in this course will complete one additional unit of study.
**ALGEBRA II**  

**Grade:** 11  
**Full Year Course**  
**Credits:** 4  
**Level:** College Prep I  

**Prerequisite:** Successful completion of Geometry

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include logarithmic, polynomial, rational, and radical functions in Algebra II. Instructional time will focus on four critical areas: (1) relate arithmetic of rational expressions to arithmetic of rational numbers; (2) expand understandings of functions and graphing to include trigonometric functions; (3) synthesize and generalize functions and extend understanding of exponential functions to logarithmic functions; and (4) relate data display and summary statistics to probability and explore a variety of data collection methods. Standards for the course come from the following conceptual categories: Number and Quantity, Algebra, Functions, and Statistics and Probability.

**HONORS ALGEBRA II**  

**Grade:** 10  
**Full Year Course**  
**Credits:** 4  
**Level:** Honors  

**Prerequisite:** B- or better in Honors Geometry or teacher recommendation.

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include logarithmic, polynomial, rational, and radical functions in Algebra II. Instructional time will focus on four critical areas: (1) relate arithmetic of rational expressions to arithmetic of rational numbers; (2) expand understandings of functions and graphing to include trigonometric functions; (3) synthesize and generalize functions and extend understanding of exponential functions to logarithmic functions; and (4) relate data display and summary statistics to probability and explore a variety of data collection methods. Standards for the course come from the following conceptual categories: Number and Quantity, Algebra, Functions, and Statistics and Probability. Students enrolled in this course will complete one additional unit of study.

**PRE-CALCULUS**  

**Grade:** 12  
**Full Year Course**  
**Credits:** 4  
**Level:** College Prep I  

**Prerequisite:** C or better in Algebra II

Pre-calculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students’ conceptual understanding of problems and mathematical reasoning in solving problems. Instructional time will focus on four critical areas: (1) extend work with complex numbers; (2) expand understanding of logarithms and exponential functions; (3) use characteristics of polynomial and rational functions to sketch graphs of those functions; and (4) perform operations with vectors. Standards for the course come from the following conceptual categories: Number and Quantity, Algebra, Functions, and Geometry.
**HONORS PRE-CALCULUS**

*Grade: 11*
*Full Year Course*
*Credits: 4*
*Level: Honors*

**Prerequisite:** B- or better in Honors Algebra II or teacher recommendation.

Pre-calculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students’ conceptual understanding of problems and mathematical reasoning in solving problems. Instructional time will focus on four critical areas: (1) extend work with complex numbers; (2) expand understanding of logarithms and exponential functions; (3) use characteristics of polynomial and rational functions to sketch graphs of those functions; and (4) perform operations with vectors. Standards for the course come from the following conceptual categories: Number and Quantity, Algebra, Functions, and Geometry. Students enrolled in this course will complete one additional unit of study.

**ADVANCED QUANTITATIVE REASONING**

*Grade: 12*
*Full Year Course*
*Credits: 4*
*Level: College Prep I*

**Prerequisite:** Successful completion of Algebra II or AIM III; placement is based on teacher recommendation.

The Advanced Quantitative Reasoning course is designed as a mathematics course alternative to pre-calculus. Through this course, students are encouraged to continue their study of mathematical ideas in the context of real-world problems and decision-making through the analysis of information, modeling change, and mathematical relationships. The primary purpose of this course is to prepare students for college majors that may not require calculus, for technical training, or for a range of career options. Instructional time will focus on four critical areas: (1) the analysis of information using statistical methods and probability; (2) modeling change and mathematical relationships; (3) mathematical decision making in finance; and (4) spatial and geometric modeling for decision making.

**HONORS CALCULUS**

*Grade: 12*
*Full Year Course*
*Credits: 4*
*Level: Honors*

**Prerequisite:** Successful completion of Honors Pre-Calculus or teacher recommendation

This course will cover topics from differential calculus. In the area of functions, graphs, and limits, students will investigate limits using algebra, graphs, and a table of data. Students will investigate derivatives geometrically, numerically, and analytically. If time permits, additional unit(s) on integral calculus will be included.
AP CALCULUS AB

Grade: 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: A B or better in Honors Pre-Calculus or teacher recommendation. A TI-83 or TI-84 is required for this course.

This course will cover topics from differential and integral calculus as outlined in the syllabus provided by the College Board. Students will explore topics geometrically, numerically, and algebraically. Extensive use will be made of the technology of the graphing calculator to explore concepts and solve problems. Students will have the opportunity to receive college credit through successful performance on the AP Exam in May.

AP CALCULUS BC

Grade: 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: A A or better in Honors Pre-Calculus or teacher recommendation. A TI-83 or TI-84 is required for this course.

This course will cover more topics than AP Calculus AB as outlined in the syllabus provided by the College Board. This is a fast-paced, intensive mathematics course whose content consists of college-level Calculus 1 and 2. Students will explore topics geometrically, numerically, and algebraically. Extensive use will be made of the technology of the graphing calculator to explore concepts and solve problems. Students will have the opportunity to receive college credit through successful performance on the AP Exam in May.

Applied Integrated Math Sequence

This sequence integrates the study of standards from Algebra I, Geometry, and Algebra II. The emphasis within each course will be on the Major Clusters of standards as identified in the Model Content Frameworks for Mathematics. These courses do not meet the NCAA requirement for Division I or Division II athletics.

APPLIED INTERGRATED MATH I

Grade: 9
Full Year Course
Credits: 4
Level: College Prep II

Prerequisite: Teacher recommendation only

The fundamental purpose of AIM I is to formalize and extend the mathematics that students learned in the middle grades. Instructional time will focus on four critical areas: (1) deepen and extend understanding of linear and exponential relationships; (2) contrast linear and exponential relationships with each other and engage in methods for analyzing, solving, and using quadratic functions; (3) extend the laws of exponents to square and cube roots; and (4) apply linear models to data that exhibit a linear trend. Standards for the course come from the following domains: Seeing Structures in Expressions, Arithmetic with Polynomials and Rational Expressions, Creating Equations, Reasoning with Equations and Inequalities, Interpreting Functions, and Interpreting Categorical and Quantitative Data.
APPLIED INTEGRATED MATH II

Grade: 10  
Full Year Course  
Credits: 4  
Level: College Prep II

Prerequisite: Successful completion of AIM I or teacher recommendation.

The fundamental purpose of AIM II is to formalize and extend students’ geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, presenting and hearing formal mathematical arguments. Instructional time will focus on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plane; (5) prove basic geometric theorems; and (6) extend work with probability. Standards for the course come from the following domains: Congruence, Similarity, Right Triangles, and Trigonometry, Expressing Geometric Properties with Equations, and Modeling with Geometry.

APPLIED INTEGRATED MATH III

Grade: 11  
Full Year Course  
Credits: 4  
Level: College Prep II

Prerequisite: Successful completion of AIM II or teacher recommendation.

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include logarithmic, polynomial, rational, and radical functions in AIM III. Instructional time will focus on four critical areas: (1) relate arithmetic of rational expressions to arithmetic of rational numbers; (2) expand understandings of functions and graphing to include trigonometric functions; (3) synthesize and generalize functions and extend understanding of exponential functions to logarithmic functions; and (4) relate data display and summary statistics to probability and explore a variety of data collection methods. Standards for the course come from the following domains: The Real Number System, Seeing Structures in Expressions, Arithmetic with Polynomials and Rational Expressions, Reasoning with Equations and Inequalities, Interpreting Functions, Building Functions, and Making Inferences and Justifying Conclusions.

Math Electives

EXPLORING COMPUTER SCIENCE PROGRAMMING

Grades: 9, 10, 11, 12  
Semester Course  
Credits: 2  
Level: College Prep

Exploring Computer Science Programming is a one semester course consisting of 5 units. Units utilize a variety of tools/platforms, and culminate with final projects around the following topics:

- Human Computer Interaction introduction to the major components of the computer and career choices in CS.
- Problem Solving basic steps in algorithmic problem solving, design, program coding, testing, and verification.
- Web Design prepares students to take the role of a developer by expanding their knowledge of programming and Web page design.
- Programming Students design algorithms and programming solutions to a variety of computational problems.
- Computing and Data Analysis students explore how computing has facilitated new methods of managing and interpreting data.
EXPLORING COMPUTER SCIENCE ROBOTICS

Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Exploring Computer Science Robotics is a one semester course. Students work in small groups to build and program robots to perform a variety of required tasks. Student focus is developing programming languages/coding skills to control the behaviors of these robots in dynamic environments. (Option to test out their robots under a specific set of circumstances in a robotics competition.)

CYBER SECURITY

Cyber Security
Grades 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep
Prerequisites: Successful completion of Exploring Computer Science Programming

This project-based course introduces the tools and concepts of cybersecurity, and allows students to research, plan, design, and create solutions that allow people to share digital artifacts while protecting privacy. Students document, present and report on configuration and testing of virtual networks. Topics include cryptography, shells, the internet of things (IoT), big data and digital citizenship.

AP COMPUTER SCIENCE PRINCIPLES

Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: Honors AP

Prerequisite: Successful completion of Exploring Computer Science

This course is based on the College Board’s Advanced Placement Computer Science Principals curriculum for introductory computer science. In this course you will learn computer science by designing and developing socially useful mobile apps. In addition to programming and computer science principles, the course is project-based and emphasizes writing, communication, collaboration, and creativity.
AP COMPUTER SCIENCE A

Grades: 11, 12
Full Year Course
Credits: 4
Level: AP

Prerequisite: Successful completion of Exploring Computer Science or teacher recommendation

This course is based on the College Board’s Advanced Placement Computer Science A curriculum and is equivalent to a first semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

AP STATISTICS

Grades: 11, 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in Algebra II (honors or CP) or teacher recommendation. A TI-83 or TI-84 is required for this course

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data as outlined by the syllabus provided by the College Board. Students who complete this course will have the opportunity to receive college credit through successful performance on the AP Exam in May.

MATHEMATICS ENRICHMENT FOR HIGH SCHOOL SUCCESS

Grades: 9-12
Semester Course
Credits: 2

Prerequisite: Teacher Recommendation

This course is designed to assist any student who would benefit from additional focus on mathematics skills and conceptual understanding. The class is designed to support the instruction in a student’s core mathematics course while concurrently reviewing prior grade level content as appropriate. Course enrollment is based on teacher recommendation. This class is pass/fail.
Music Program

Introduction

The study of music is an integral part of a liberal arts education. Students in the music program will develop their creative potential through comprehensive study, performance. The program is designed to enhance listening skills, develop aesthetic appreciation and understanding of many music styles, and acquire knowledge of the great musical literature and their composers.

Scope and Sequence

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<td></td>
<td>• Concert Choir</td>
<td>• Music Theory I</td>
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<td>• Concert Band</td>
<td>• Piano Lab I</td>
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<td></td>
<td>• Concert Orchestra</td>
<td>• Piano Lab II</td>
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<td></td>
<td>• Concert Band</td>
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<td></td>
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<td>• Piano Lab I</td>
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<td>• Honors Music Major</td>
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<td></td>
<td>• Honors Wind Ensemble</td>
<td>• Fundamentals in Music</td>
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Music Course Offerings

CONCERT CHOIR (611)

Grades: 9 (males), 10, 11, 12
Full Year Course
Credits: 4
Level: College Prep

Concert Choir is the point of entry into the high school vocal program for all students except freshmen girls, who should take Freshmen Girls' Choir instead. It is also the vocal ensemble for students who are not taking Chamber Singers. Evaluation and grades are based on performance participation and musical proficiency. This course may be repeated each year for credit. Students must be able to match pitch and have a sense of melodic and rhythmic contours. Students who elect Concert Choir throughout their high school career will find that they will continue to be challenged as well as to improve their musical skills. Concert Choir is a performance-based class and concert participation is mandatory. Appropriate concert attire consisting of a white shirt and black pants or skirt is required.

FRESHMAN BAND (619)

Grade: 9
Full Year Course
Credits: 4
Level: College Prep

Prerequisite: Two years of study on a band instrument or teacher recommendation

The band will provide students with an excellent opportunity for musical expression in a variety of surroundings. The band performs at football games, in local parades, competitions, exhibitions, school and community events, and seasonal concerts. This is a performance-based class and participation at all events is mandatory. As part of this course, students in the band are required to attend a full week of Marching Band Camp. Students with exceptional talent are offered a chance to audition for S.E.M.S.B.A., Southeastern District and All-State Music Festivals. Students must be proficient in both playing an instrument and reading music to participate in the band.

FRESHMEN GIRLS' CHOIR (610)

Grade: 9
Full Year Course
Credits: 4
Level: College Prep

This course is designed to teach the fundamentals of group vocal technique specific to the needs of the adolescent female voice. Students will master the content of the course through listening, singing, and performing. Successful completion of the course will result in students' ability to sing and perform on stage with confidence; sing with proper posture, intonation, breath support, and blend; and identify, understand, and respond to musical symbols and terms. Students must be able to match pitch and have a sense of melodic and rhythmic contours. Freshmen Girls' Choir is a performance-based class and concert participation is mandatory. Appropriate concert attire consisting of a white shirt and black pants or skirt is required.
### CONCERT ORCHESTRA

**Grades:** 9, 10, 11, 12  
**Full Year Course**  
**Credits:** 4  
**Level:** College Prep

**Prerequisite:** Two years of study on a string instrument (violin, viola, cello, or string bass) or teacher recommendation

This course is designed to teach the fundamentals of group string techniques. Students will master the content of the course through listening, playing, and performing. Successful completion of the course will result in students’ ability to play and perform on stage with confidence; play with proper posture, intonation, technique and blend; and identify, understand, and respond to musical symbols and terms. Students must be able to provide their own instrument, match pitch, and have a sense of melodic and rhythmic contours. Concert Orchestra is a performance-based class and concert participation is mandatory. Appropriate concert attire consisting for women of a black shirt and black pants or skirt, and for men a white dress shirt and black suit with a bow tie is required.

### FUNDAMENTALS OF MUSIC

**Grades:** 9,10,11,12  
**Semester Course**  
**Credits:** 2  
**Level:** CP

**Prerequisite:** Teacher Recommendation Only

This course will explore all strands of the National and State Standards for Music Education: Singing, playing instruments, responding, composing, and performing. Students will explore music through singing and playing a variety percussion instruments, (drums, mallets, boomwhackers, Orff, shakers, tonal chime bells) by performing composed and improvised music to develop and strengthen listening, communication, motor, and social skills. This course will include informal performance opportunities during the school day.

### GUITAR LAB

**Grades:** 9, 10, 11, 12  
**Semester Course**  
**Credits:** 2  
**Level:** College Prep

Guitar Lab is a performance practice class designed to learn how to play guitar. Students spend time learning guitar through group instruction and individual practice time. Other aspects of the class include playing music by ear, in-class recital performances, and learning elements of music theory. Guitar Lab is open to all students without prerequisite and regardless of performance ability. This class will be taught from the very beginning basics of guitar whether you have had guitar experience in the past or not.

### GUITAR LAB II

**Grades:** 9, 10, 11, 12  
**Semester Course**  
**Credits:** 2  
**Level:** College Prep

**Prerequisite:** Successful completion of Guitar Lab

Guitar Lab II is a performance practice class designed as a continuation of Guitar Lab and is for students who already have guitar playing experience. Students spend time learning guitar through group instruction and individual practice time. Other aspects of the class include playing music by ear, in-class recital performances, and learning elements of music theory. Guitar Lab II is open to all students who have successfully completed Guitar Lab or to those students who successfully show the expected guitar skills to the appropriate teacher in the music department.
MUSIC THEORY I
Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Students will have an opportunity to develop an understanding of the fundamentals of music theory through five primary approaches: analyzing, composing, playing, listening, and singing. Students' creative abilities in music composition will also be explored and developed. All students will learn to play piano.

PIANO LAB I
Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Beginner Piano class is a performance practice class designed to learn how to play piano. Students spend time learning piano through group instruction and individual practice time. Other aspects of the class include playing music by ear, in-class recital performances, and learning elements of music theory. Beginner Piano is open to all students without prerequisite and regardless of performance ability. This class will be taught from the very beginning basics of piano whether you have had piano experience in the past or not.

PIANO LAB II
Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Prerequisite: Successful completion of Piano Lab I

Piano II is a performance practice class designed as a continuation of Piano I and is for students who already have piano playing experience. Students spend time learning piano through group instruction and individual practice time. Other aspects of the class include playing music by ear, in-class recital performances, and learning elements of music theory. Piano II is open to all students who have successfully completed Piano I or to those students who successfully show the prerequisite piano skills to the appropriate teacher in the music department.

HONORS CHAMBER SINGERS
Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: Honors

Prerequisite: Singing Audition and teacher recommendation

Chamber Singers is a course open to vocalists of advanced skill and high motivation. The course will focus on group vocal techniques, a high level of public and personal performance, various styles of choral literature, and individual growth. Students will work toward auditioning for District and SEMSBA festivals. Students will be given the opportunity to master vocal skills and increase their musical understandings by means of rigorous rehearsals, daily individual practice, and recorded assignments. This course will provide an opportunity for singers to realize high levels of personal achievement, be part of an ensemble of exceptional musical quality, and reach high group performance standards. Students will continue working toward the goal of musical literacy, including sight-singing using the moveable [Do] system. Chamber Singers is a performance-based class and participation at all concerts is mandatory. On average, Chamber Singer members are required to perform 6-8 concerts a year. This course may be repeated each year for credit. Appropriate concert attire is required of all members; Black suit for gentlemen and formal, floor length gown for the women.
CONCERT BAND

Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: College Prep

Prerequisite:  Two years of study on a band instrument or teacher recommendation

The band will provide students with an excellent opportunity for musical expression in a variety of surroundings. The band performs at football games, in local parades, competitions, exhibitions, school and community events, and seasonal concerts. This is a performance-based class and participation at all events is mandatory. As part of this course, students in the band are required to attend a full week of Marching Band Camp. Students with exceptional talent are offered a chance to audition for S.E.M.S.B.A., Southeastern District and All-State Music Festivals. Students must be proficient in both playing an instrument and reading music to participate in the band.

HONORS WIND ENSEMBLE

Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: Honors

Prerequisite:  Playing audition and teacher recommendation

The Wind Ensemble is a course open to instrumentalists of advanced skill and high motivation. The course will focus on group instrumental techniques, various styles of instrumental literature, and a high level of individual musical growth. Students will work toward auditioning for the District and SEMSBA music festivals. Students will be given the opportunity to master instrumental skills and increase their musical understandings by means of rigorous rehearsals and daily individual practice. This course will provide an opportunity for instrumentalists to realize high levels of personal achievement, be part of an ensemble of exceptional musical quality, and reach high group performance standards. All members of the Wind Ensemble are also in the Marching Band. The bands perform at football games, local parades, competitions, exhibitions, school and community events, seasonal concerts, and are required to attend a full week of Marching Band Camp. The Wind Ensemble is a performance-based class and participation at all concerts is mandatory.

HONORS MUSIC MAJOR

Grade: 12
Full Year Course
Credits: 4
Level: Honors

Prerequisite:  Enrollment in an honors level ensemble class or teacher recommendation

This course is designed for those students who have a serious interest in music as a career or who plan to elect music as a major or minor beyond high school. Due to the amount of independent work, students must be able to keep themselves motivated and on task. Unit topics will include advanced theory, history of Western music, conducting, composition, research projects, and individual performances. Students will be continuing studies on the piano keyboards.
Science Program

Introduction

The Pembroke High School science program seeks to foster students’ scientific literacy through the development of competency in a wide variety of areas. Through a comprehensive curriculum based on an inquiry and investigative science, collect and analyze data and to draw conclusions based on their experiments. Courses will also raise social and ethical issues related to the impact of science and technology on our society and endeavor to create a sense of responsibility and awareness in students regarding the environment. Our expectation is that students will learn to identify and solve problems as science, literate 21st century global citizens.

Scope and Sequence

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Science Course Offerings

**BIOLOGY**

*Grade: 9  
Full Year Course  
Credits: 4  
Level: College Prep*

**Prerequisite:** Successful completion of Science 8

In this college preparatory science course, students will develop an understanding of the standards by integrating disciplinary core ideas (concepts) with scientific and engineering practices (skills) as related to current biological concepts and theories. In alignment with the Massachusetts Curriculum Frameworks for literacy in biology this course prepares students for the Biology MCAS examination. Standards include: chemistry of life, cell biology, genetics, anatomy and physiology, evolution and biodiversity, and ecology.

**HONORS BIOLOGY**

*Grade: 9  
Full Year Course  
Credits: 4  
Level: Honors*

**Prerequisite:** A- or better in Science 8, successful completion of Accelerated English 8 or teacher recommendation. Concurrently enrolled in Honors Geometry or Algebra I.

In this honors science course, students will develop an understanding of the standards by integrating disciplinary core ideas (concepts) with scientific and engineering practices (skills) related to the life sciences. Students seeking independent learning, possessing comprehensive reading skills, can investigate through inquiry, and are adept in learning to craft formal lab reports will find this course exciting and challenging. In alignment with the Massachusetts Curriculum Frameworks for literacy in biology this course prepares students for the Biology MCAS examination. Standards include: chemistry of life, cell biology, genetics, anatomy and physiology, evolution and biodiversity, and ecology.

**CHEMISTRY**

*Grade: 10  
Full Year Course  
Credits: 4  
Level: College Prep*

**Prerequisite:** Successful completion of Biology, Algebra I or AIM I. Concurrently enrolled in Geometry or AIM II.

In this college preparatory chemistry course students examine the study of the structure and properties of matter. This course aligns and meets the Massachusetts Curriculum Frameworks for literacy in chemistry.

Topics include: measurement, atomic structure, bonding, chemical periodicity, chemical reactions, stoichiometry, kinetics, equilibrium, and acid base chemistry.
HONORS CHEMISTRY

Grade: 10
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Honors Biology or A- or better in Biology CP or teacher recommendation. Successful completion in Honors Geometry with a grade of B- or better. Concurrently enrolled in Honors Algebra II.

Honors Chemistry examines the study of the structure and properties of matter. This course is designed to exceed the requirements of the Massachusetts Curriculum Frameworks for literacy for chemistry in both detail and scope. There is a focus on analysis, application of concepts and critical thinking as well as independent study skills. The course emphasizes problem-solving skills using mathematical and extensive experimental analysis to support concept development.

Topics include: measurement, atomic structure, bonding, chemical periodicity, chemical reactions, stoichiometry, kinetics, equilibrium, and acid base chemistry.

AP BIOLOGY

Grade: 11, 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in Honors Biology or A in Biology CP or teacher recommendation. B or better in Honors Chemistry or A in Chemistry CP or teacher recommendation.

AP Biology is the equivalent of an introductory college biology course. The curriculum of the course is determined by the College Board. Topics to be included are cell biology, plant and animal physiology, heredity and evolution, organisms and populations, and global / community ecology.

AP CHEMISTRY

Grade: 11, 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in Honors Chemistry or A or better in CP Chemistry; A or better in CP Algebra II, B- or better in Honors Algebra II or teacher recommendation.

Advanced Placement Chemistry is designed to be the equivalent of an introductory college chemistry course. The curriculum content is determined by the College Board. This course presents an in-depth understanding of the chemical facts and principles introduced in general chemistry. Emphasis is placed on analysis of data, problem-solving, chemical calculations and predictions, and working independently in the laboratory.
PHYSICS

Grades: 11, 12
Full Year Course
Credits: 4
Level: College Prep

Prerequisite: Successful completion of Algebra I, Geometry and concurrently enrolled in Algebra II.

Physics is the study of energy and motion. This course provides a full mathematical treatment of topics in physics, including vector analysis. Students will be introduced to basic principles of physics, and will be expected to work independently in class, using mathematics to solve problems. Topics include:

- motion
- kinematics in one and two dimensions
- forces and Newton’s Laws of motion
- dynamics of circular motion
- work, energy, and impulse and momentum
- harmonic motion and waves
- electricity and magnetism
- geometrical optics
- wave nature of light

HONORS PHYSICS

Grades: 11, 12
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Honors Chemistry or A- or better in Chemistry CP or teacher recommendation. Successful completion of Algebra II and concurrently enrolled in Pre-Calculus.

This accelerated science course prepares students who plan to pursue careers in engineering, math, science, or medicine. The course emphasizes problem-solving using mathematical analysis and uses extensive experimental analysis to support concept development. It covers the three broad areas of mechanics, electricity and magnetism, and optics. Mechanics investigates the most fundamental concepts in physics: how, why and what consequences are associated with the motion of bodies. Electricity and magnetism use the fundamental concepts learned in mechanics to survey the nature of electromagnetic field theories and interactions. Optics provides ray explanations for lens and mirror effects and descriptions of light behavior as a wave phenomenon.

AP PHYSICS C

Grade: 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in Honors Physics or A in Physics CP or teacher recommendation. Successful completion of Pre-calculus and concurrently be enrolled in Calculus.

AP Physics provides a comprehensive study of foundational principles of physics in classical mechanics by applying these principles to complex physical situations that combine multiple aspects of physics rather than present concepts in isolation. These skills are set forth by the College Board.
Science Electives

**HONORS ANATOMY & PHYSIOLOGY**

*Grades: 11, 12*
*Full Year Course*
*Credits: 4*
*Level: Honors*

**Prerequisite:** B- or better in Honors Biology and Honors Chemistry, or A- or better in CP Biology and CP Chemistry, or teacher recommendation.

This lab science course studies the structure and function of the human body. It is highly recommended for juniors and seniors who intend to pursue careers in medicine, nursing, or other health-related fields. Anatomy and physiology studies human processes on the molecular, cellular, tissue, organ, and system levels and is a complement to AP Biology. Activities include microscopic work. Student will individually analyze and assess case studies integrating the human processes to propose treatments; complete independent laboratory “practical” assessments, and engage in dissection and physiology experiments. Students are required to create a culminating project relating all body systems to demonstrate their understanding of homeostasis.

**Note:** This course includes the cat dissection as well as other dissections. This is an important application of content in this course. Alternate activities will be provided for students who provide, in writing, a justification for objecting to dissections.

**ENVIRONMENTAL ENGINEERING, I**

*Grades: 11, 12*
*Semester Course*
*Credits: 2*
*Level: College Prep*

**Prerequisite:** Successful completion Biology and Chemistry

This semester lab science course investigates green energy, preservation of the environment and the anticipated consequences for the depletion of fossil fuels. This course should be elected by students who have an interest in exploring chemistry, physics and environmental science concepts in more depth. Topics to be discussed include the following:

12 principles of green engineering

Wind Power

Bio fuels – Biodiesel and Algae as a fuel

Solar Power Hydropower

Sewage Power

**FORENSIC SCIENCE**

*Grades: 11, 12*
*Semester Course*
*Credits: 2*
*Level: College Prep*

**Prerequisites:** Successful completion of Biology and Chemistry

This semester lab science course focuses on problem solving, allowing students to demonstrate understanding and apply lab skills learned in previous science classes by examining the evidence left behind at a hypothetical crime scene. By use of a variety of tests and instrumentation, which will involve qualitative observations based on both physical and chemical properties of the body of evidence, students will make findings and “solve” hypothetical crimes.
Students will be introduced to the techniques, vocabulary and procedures used in crime scene analysis. Students will learn both police forensic procedures and the law that governs the collection and use of evidence.

Topics which may be included in crime scene investigations are blood type analysis, organic and inorganic evidence analysis, microscopic investigations, hair analysis, DNA gel electrophoresis (DNA fingerprinting), forensic psychology, drug chemistry and toxicology, fiber comparisons, fingerprints, soil comparisons, and the law that governs the collection and use of evidence.

**MARINE BIOLOGY**

*Grades: 10-12*
*Semester Course*
*Credits: 2*
*Level: College Prep*

**Prerequisite:** Successful completion of Biology

This is a semester lab science course that investigates marine organisms, marine environments and the conservation of our oceans. This course should be elected by students who have an interest in exploring one branch of science in more depth. Topics include the study of various marine environments and marine life, with a focus on horseshoe crabs, coral reefs, marine plants, sharks, marine mammals, marine reptiles and birds, coastal invertebrates, estuarine systems and marine ecology.

**ZOOLOGY**

*Grades: 10-12*
*Semester Course*
*Credits: 2*
*Level: College Prep*

**Prerequisite:** Successful completion of Biology

This semester lab science course is an introduction to Zoology (the study of animals). Students will investigate comparative animal anatomy, their habitat and life cycle, classification, and behavior and research specific endemic species that are not native to the New England region. This course will emphasize terrestrial species to complement organisms studied in Marine Biology.

**Note:** This course includes several dissections which are an intricate application of content.

**SCIENCE ENRICHMENT FOR HIGH SCHOOL SUCCESS**

*Grades: 9*
*Semester Course*
*Credits: 2*

**Prerequisite:** Teacher Recommendation

This course is designed to assist any student who would benefit from additional focus on science skills through his/her freshman year transition into the more rigorous demands of independent high school coursework. Students will learn and apply a variety of reading strategies for comprehension in the science subject areas. There will be focus on lab report writing, science vocabulary, and problem solving to facilitate higher achievement in all science assessments. Time will be dedicated to test item attack skills as well as test preparation techniques. Students will also continue to build reading fluency and vocabulary development and they will develop individual and group presentation skills essential for success as 21st century students and citizens. This class is pass/fail.
Social Studies Program

Introduction

The study of history and the social sciences provides certain kinds of knowledge, skills, and understanding fundamental to a complete secondary education. The Social Studies Department has adopted Curriculum Pathway One in accordance with the Massachusetts History and Social Science Frameworks. The social studies curriculum is focused on ensuring that students will acquire the concepts and skills necessary to become informed and involved citizens. Students are required to master key historical concepts and develop the historical and analytical thinking and writing skills necessary to be literate in social science content. By studying history and the social sciences, students will develop the skills identified by the Massachusetts Curriculum Frameworks such as: the analysis of original and secondary source texts, articulate evidence-based opinion through debate of current political and social events, and conduct original research using historical methods as well as research methods appropriate to the social sciences.

Scope and Sequence

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<td>• History of Modern Music (9-12)</td>
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<td>Grade 10</td>
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<td>• History of Modern Music (9-12)</td>
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Social Studies Course Offerings

WORLD HISTORY: 500 BCE to the Modern Day

Grade: 9
Full Year Course
Credits: 4
Level: College Prep

World History is the story of humanity’s intellectual, political, social and cultural development from the advent of widespread empires and the diffusion of systems of beliefs to the Modern Day. The course charts global history through the lens of four different themes: Revolution, War, Imperialism, and Culture/Arts/Religion. The content covered in this course will also be framed through a study of civic and economic actors, groups, and institutions with the goal of teaching students how to make informed civic and economic choices. Students will be required: to read and analyze both primary and secondary source documents, produce original research by writing essays and research papers, and debate ideas within both historical and modern contexts. By the end of this course, students should understand the problems humans have struggled with throughout history, recognizing similarities in modern-day societies.

HONORS WORLD HISTORY: 500 BCE to the Modern Day

Grade: 9
Full Year Course
Credits: 4
Level: Honors
Prerequisite: A- or better in World History I or teacher recommendation.

This course will cover the same time period as Grade 9 World History-charting global history through the lens of four different themes: Revolution, War, Imperialism, and Culture/Arts/Religion. The content covered in this course will also be framed through a study of civic and economic actors, groups, and institutions with the goal of teaching students how to make informed civic and economic choices. However, this course will demand a significantly larger commitment on the part of students to historical reading, and research. The course will make frequent use of primary source documents as well as literary and philosophical primary sources. Students who wish to take this course should expect to complete a significant amount of analytical writing.

US HISTORY I: Origins of The American Revolution (1754) through World War I (1918)

Grade: 10
Full Year Course
Credits: 4
Level: College Prep
Prerequisite: Successful completion of World History II.

Students will examine the historical and intellectual origins of the United States beginning with a discussion of the origins of colonial discontent with Great Britain in 1754. Students will focus on the political, economic, and intellectual factors that contributed to the outbreak of the Revolution as well as the consequences of the Revolution. Students will study the concepts of American government, westward expansion, the establishment of political parties, the Civil War, the Gilded Age, the Progressive Era, and the outbreak and resolution of World War I. The content covered in this course will also be framed through a study of civic and economic actors, groups, and institutions with the goal of teaching students how to make informed civic and economic choices. Students will process these understandings by completing document-based and free response writing assignments. Students will also be required: to read and analyze both primary and secondary source documents, produce original research by writing essays and research papers, and debate ideas within both historical and modern contexts.
HONORS US HISTORY I: Origins of The American Revolution (1754) Through World War I (1918)  115

Grade: 10
Full Year Course
Credits: 4
Level: Honors
Prerequisite: B- or better in Honors World History II, or A- or better in World History II CP or teacher recommendation.

This course will cover the same time period as Grade 10-United States History I as students will study the concepts of American Government, westward expansion, the establishment of political parties, the Civil War, the Gilded Age, the Progressive Era, and the outbreak and resolution of World War I. The content covered in this course will also be framed through a study of civic and economic actors, groups, and institutions with the goal of teaching students how to make informed civic and economic choices.

However, this course will demand a significantly larger commitment on the part of students to historical reading and research. The course will make frequent use of primary source documents as well as literary and philosophical primary sources. Students who wish to take this course should expect to complete a significant amount of analytical writing.

US HISTORY II: The 1920s to the Modern Day  131

Grade: 11
Full Year Course
Credits: 4
Level: College Prep
Prerequisite: Successful completion of U.S. History I

Students will begin their study with the 1920s and examine the impact of this period of time on the social, political and economic life of the United States. Students will also study the economic impact of the Great Depression on American social and political life as well as the goals and accomplishments of the New Deal. Students will learn about World War I, World War II, the Cold War, the Vietnam War, the Civil Rights movement and current events. The content covered in this course will also be framed through a study of civic and economic actors, groups, and institutions with the goal of teaching students how to make informed civic and economic choices. Students will also be required: to read and analyze both primary and secondary source documents, produce original research by writing essays and research papers, and debate ideas within both historical and modern contexts.

HONORS US HISTORY II: The 1920s to the Modern Day  133

Grade: 11
Full Year Course
Credits: 4
Level: Honors
Prerequisite: B- or better in Honors US History I, or A- or better in US History I CP or teacher recommendation.

Students will begin their study with the 1920s and examine the impact of this period of time on the social, political and economic life of the United States. Students will also study the economic impact of the Great Depression on American social and political life as well as the goals and accomplishments of the New Deal. Students will learn about World War I, World War II, the Cold War, the Vietnam War, the Civil Rights movement and current events. The content covered in this course will also be framed through a study of civic and economic actors, groups, and institutions with the goal of teaching students how to make informed civic and economic choices. However, this course will demand a significantly larger commitment on the part of students to historical reading and research. The course will make frequent use of primary source documents as well as literary and philosophical primary sources. Students who wish to take this course should expect to complete a significant amount of analytical writing.
AP US HISTORY: THE AGE OF EXPLORATION TO THE PRESENT

Grade: 11, 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B or better in Honors US History I or II, A or better in US History I or II CP or teacher recommendation.

This college level course covers the entirety of American history from The Age of Exploration to the Present day. A major emphasis is placed on analytical writing skills demonstrating in assessments such as: research papers; document-based and long essay questions. Additionally, students are expected to read historical novels, and complete extensive reading beyond the textbook. Historical journals, primary and secondary source anthologies and periodical literature are integrated into this demanding course. The outside reading emphasizes the importance of multiple interpretations and synthesis of historical evidence. All students who enroll in this course are required to take the national AP United States History exam given in May. There will be an informational meeting in the spring and a summer reading assignment.

AP EUROPEAN HISTORY

Grade: 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B- or better in AP U.S. History, or B or better in Honors U.S. History I or II, A or better in US History I or II CP, or teacher recommendation

European history focuses on events in Europe from 1450-2001, including the study of political, intellectual, and economic themes of European history from the Renaissance and Reformation through World Wars I and II. Students will analyze and evaluate European historic events and themes, comparing them with current world events, using multiple sources of different perspectives. Students’ written assignments will include document based question essays, free response essays, and research projects and essays in response to reading. All students who enroll in this course are required to take the national AP European History exam in May. There will be an informational meeting in the spring regarding mandatory summer reading coursework.

AP GOVERNMENT AND POLITICS

Grade: 11, 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B-or better in AP US History, or B or better in Honors U.S. History I or II, A or better in US History I or II CP, or teacher recommendation

This college level course investigates the American political system in depth. The topics included in this course are the Constitution, elections and campaigns, interest groups, civil rights and civil liberties, and institutions. Students will be expected to participate directly in the electoral process if there is an election during the course of the year and students will also be expected to complete a research paper on an approved topic within the American political system, as well as participate in the We The People competition on a Saturday in January. Students are required to take the AP exam in the spring. There will be an informational meeting in the spring and required summer work.
AP PSYCHOLOGY

*Grades: 11, 12*
*Full Year Course*
*Credits: 4*
*Level: Advanced Placement*

This college level course investigates the history of psychology and introduces students to the various research methods accepted in the field of psychology. Students will examine the biological basis of behavior, sensation and perception, learning, cognition, motivation and emotion. Students will also become familiar with various theories of developmental psychology, testing, individual differences, and abnormal and social psychology. Students will complete a research paper on an assigned topic. Students are required to take the AP exam in the spring. There will be an informational meeting in the spring and a summer reading assignment.

Social Studies Electives

ECONOMICS I

*Grades: 9-12*
*Semester Course*
*Credits: 2*
*Level: College Prep*

Students will utilize micro-economic theories to make reasoned judgments about both personal economic questions, and broader questions of economic policy. Students will develop a process for thinking and problem solving in order to understand and apply basic economic principles to decisions they will make as consumers, members of the workforce, citizens, voters, and participants in a domestic and global marketplace. Understanding the process and components of economic reasoning will also provide a vital framework within which to analyze current issues and public policies, and to understand the complex relationships among economic, political, and cultural systems.

ECONOMICS II

*Grades: 10-12*
*Semester Course*
*Credits: 2*
*Level: College Prep*

**Prerequisite:** Successful completion of Economics I.

This course will examine macro-economic theories and with an additional focus on the allocation of scarce resources and the economic reasoning used by government agencies and by people as consumers, producers, savers, investors, workers, and voters. Key elements include the study of scarcity, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, the stock market, economic stabilization, and trade. Students will also be required: to read and analyze a variety of economic literature, produce original research by writing essays and research papers, and debate ideas important to the understanding of the economy.
GENOCIDE IN HISTORY

Grades: 9, 10, 11, 12  
Semester Course  
Credits: 2  
Level: College Prep

Students enrolled in this course will examine genocide and the ongoing violation of basic universal human rights experienced by targeted populations within the global community. Topics will include the origins and definition of the term “genocide”, the role of the United Nations in preserving and protecting basic human rights, and the history and international response to three genocides. The three genocides will include the Holocaust, Cambodia, and Rwanda. Students will also be required to read and analyze both primary and secondary source documents, produce original research by writing essays and research papers, and debate ideas within both historical and modern contexts.

HISTORY OF MODERN MUSIC

Grades: 9, 10, 11, 12  
Semester Course  
Credits: 2  
Level: CP

This course will focus on a history of popular musical trends and techniques since 1950. Foci include the emergence of pre and post-WWII avant-garde movements, relationships between avant-garde and experimental tendencies in music and other artistic disciplines, and the impact of globalization, sociopolitical instability, and emerging technologies on musical creation. Students will explore the wide variety of music that has existed in the U.S. in the late 20th century and the modern day. Students will study musical trends and genres throughout the decades (ex: rock and roll, 60’s protest music, disco, new wave, grunge, hip-hop, etc.). Throughout the course, students will make connections between individual artists, bands, and domestic as well as global events. The course will also focus on the power of music to embolden people to change society, voice their grievances, or celebrate social/economic/or political movements in American and Global society. Course activities will include primary and secondary source readings, listening/viewing and writing assignments, class discussions, and student-led presentations. In order to develop students critical thinking, listening, and speaking skills, as well as their interpersonal learning skills, participation in class activities that are led by students will be prioritized. Overall, the course will deepen and broaden students’ perspectives on music of the past century and increase familiarity with important modern and contemporary repertoire, aesthetic movements, and genres.

HONORS MODEL UNITED NATIONS I AND II

Grades: 9, 10, 11, 12  
Year-Long Course  
Credits: 4  
Level: Honors

Prerequisite: B- or better in previous Honors-Social Studies course, or A- or better in previous CP-Social Studies Course, or teacher recommendation.

This course is designed to examine a wide variety of functions of the United Nations (UN) and how the UN deals with crucial world problems. Students will gain insight into how nations, both singularly and collectively, cope with crises such as: poverty, disease, hunger, population growth, human rights, political instability, war, terrorism, and others. Students will also develop a perspective of how other nations view the United States and the role of America in the world community. Students in this course can expect a large amount of analytical reading, writing, and oral debate within a structured format. Students who wish to stay in the Model United Nations Program for an additional year will matriculate into Honors Model United Nations II and take on leadership roles within the class, such as acting as part of the UN Secretariat as well as acting as committee chairs during Model UN debates. The Model UN I and II course will be taught together in a blended format to allow students with various levels of experience to work together. The course includes commitments outside of the class, such as participation in Model UN conferences and simulations where students will interact with other Model UN teams. Participation in Model UN conferences outside of class is not mandatory, but is highly encouraged.
UNITED STATES GOVERNMENT

Grades: 11, 12
Semester Course
Credits: 2
Level: College Prep

Students will examine the federalist system of government and its importance today. Students will focus on political events at the local, state, and federal level and understand the relationship between these three levels of government. Topics of study include the Bill of Rights, the Patriot Act, education policy, environmental policy, and local as well as state issues. Upon successful completion of this course, students should be able to: analyze and evaluate sources of information both in text and online including government reports and statistical data, research and write analytically using a variety of sources and perspectives, create original work using research and cite in MLA format as appropriate, and present information effectively in small groups and whole class settings using appropriate technology.

STREET LAW

Grades: 9, 10, 11, 12
Semester Course
Credits: 2
Level: College Prep

Students will examine both federal and state laws that apply to their daily lives. Students will explore both the civil and criminal legal system, and become familiar with Supreme Court case law. Topics included are privacy, search and seizure, self-defense, freedom of expression, freedom of religion, school law, negligence and property. Students in this class are expected to participate in class seminars, mock trials, presentations and other performance assessments as well as produce original research through analysis of legal literature.

PSYCHOLOGY

Grades: 11, 12
Semester Course
Credits: 2
Level: College Prep

Students will explore a variety of topics associated with the study of Psychology. Topics include: psychology as a science, research methods, the brain and nervous system, sensation and perception, sleep and dreams, learning, personality, and psychological disorders. Students will also be required: to read and analyze a variety of social-science literature in the field of psychology, produce original research by writing essays and research papers, and debate ideas within both social-science and modern contexts.

SOCIOLOGY

Grade: 11, 12
Semester Course
Credits: 2
Level: College Prep

Sociology is a course that seeks to study human society and social behavior. Sociologists concentrate their attention on social interaction—the ways in which people relate to one another and influence each other’s behavior. The Study of Sociology provides you with the tools to develop a sociological imagination, or the ability to see the connection between the larger social world and our personal lives. Topics include social science research methods, socialization, crime, deviance, culture and the family. Students will create, administer and evaluate surveys, research and write essays pertaining to social issues, and communicate effectively in presentations.
Wellness Program

Introduction

All high school students must participate in our Wellness Program every year. All freshmen are required to successfully complete a semester of Grade 9 Health and Wellness. Sophomores, juniors, and seniors have a variety of electives, which are described in the Course Offerings section below, from which they can choose to complete the remaining three years of the Wellness Program requirement.

Students in grades 10-12 can also satisfy portions this 4-year graduation requirement through a non-traditional, alternative method:

- Successfully complete a full season as a bona fide team member of a junior varsity or varsity MIAA-sanctioned athletic team at PHS.
- Seek approval from the PE/Wellness Review Committee (comprised of the principal or his/her designee, a guidance counselor, and a physical education teacher) to participate in a fitness program outside of PHS, one that not only requires students to engage in physical activity equal to or in excess of a semester’s worth of physical education classes but also addresses the educational components of fundamental health concepts and skills found in PHS Wellness Program curricula.

Students interested in satisfying the Wellness Program graduation requirement through an alternative means must indicate their preference by completing two important steps.

1. First, during the course selection process in February/March, students must select the “alternative Wellness Program” option when registering for their classes.
2. After the course selection portal closes, the student’s guidance counselor will prompt the student to submit an “Alternative Wellness Program” form to the PE/Wellness Review Committee for their consideration. Should the committee not grant the request, the student and guidance counselor will work together to select a traditional PE/Wellness class from the course offerings listed below.

Please note that graduation credits are awarded only for those that elect to take the traditional PHS course within our Wellness Program. No credits will be awarded for any options that take place outside the school day, nor can any out-of-school option count towards the structured learning time mandate.
Scope and Sequence

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<thead>
<tr>
<th>Grade</th>
<th>Semester</th>
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<td>Grade 9</td>
<td>Health &amp; Wellness 9</td>
<td>9th Grade Health &amp; Wellness</td>
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<td>Grade 10</td>
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<td>Lifetime Recreational Sports</td>
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<tr>
<td>Grade 12</td>
<td>Wellness 12</td>
<td>Personal Fitness</td>
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</table>

Physical Education Course Offerings

**HEALTH & WELLNESS**

*Grade: 9*

*Semester Course*

*Credits: 2*

*Level: College Prep*

Students will learn and participate in various physical activities and subjects that help increase overall fitness and health awareness. Focus will be on increasing the student's physical fitness level through a combination of aerobic games, team sports and physical fitness activities. Students will learn the fitness benefits of each activity along with the skills, rules, and history of the game. Students will increase their knowledge of important adolescence health topics including the human life cycle, social/emotional health & wellness, and substance use and abuse. **Units may include:**

- Soccer
- Basketball
- Track and Field
- Substance Use & Abuse
- The Human Life Cycle
- Fitness Testing
- Volleyball
- Softball
- Flag Football
- Social/Emotional Health & Wellness
- Weight Training/Yoga
- Badminton

**Wellness Electives**

**ALTERNATIVE FITNESS**

*Grades: 10, 11, 12*

*Semester Course*

*Credits: 2*

*Level: College Prep*

This course is designed to teach students fitness strategies to overcome the effects of stress on your spirit, mind and body. This course covers a variety of different fitness genres including: yoga, Pilates, tai-chi, dance, aerobics, and group fitness. The course is to help students step out of their comfort zone while learning low impact exercises and activities to participate in to live a healthy lifestyle.
**LIFETIME RECREATIONAL SPORTS**

*Grades: 10, 11, 12*

*Semester Course*

*Credits: 2*

*Level: College Prep*

This course is designed for those students interested in participating in traditional physical education activities. All students will develop an appreciation for fitness and wellness through the coordinated teaching of recreational sports activities. Students will participate in teams and will need to work positively with one another to be successful and to reach team goals. The course will focus on team and individual sports such as badminton, basketball, football, soccer, floor hockey, softball, disc games, tennis and golf to enhance skills and behaviors necessary for optimal physical, social and emotional growth.

**PERSONAL FITNESS**

*Grades: 10, 11, 12*

*Semester Course*

*Credits: 2*

*Level: College Prep*

This course will give students the necessary foundation to develop a personal fitness program. Students will explore the five components of fitness and the importance of a proper diet and exercise. Each program will assess current fitness levels and provide a variety of opportunities to stay active and maintain a high level of fitness. Successful completion of this course will require a final individual fitness program and research project.
World Language Program

Introduction

Students who select a World Language do so in order to develop a level of functional proficiency in their chosen language, and to acquire many specific skills stated within individual course descriptions. It is expected that the study of a World Language will increase students’ understanding and appreciation of the cultures in which that language is spoken. The instructional methodology and core curriculum of each course taught in this department is in compliance with the requirements and recommendations of the Massachusetts Curriculum Frameworks.

Students who are planning to attend a four-year college after high school are advised to take at least two years of the SAME language at the high school level. For entrance into more competitive colleges, students are advised to take three to four years of the same language at the high school level.

Scope and Sequence

<table>
<thead>
<tr>
<th>Grade</th>
<th>French</th>
<th>Latin</th>
<th>Spanish</th>
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<tbody>
<tr>
<td>Grade 9</td>
<td>French I</td>
<td>Latin I</td>
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<td>French II</td>
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<td>Grade 10</td>
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<td>French II</td>
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<td>French III</td>
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<td>Grade 11</td>
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<td>Grade 12</td>
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<td>Latin I</td>
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<td>Latin IV/V</td>
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<td>AP French</td>
<td>AP Latin</td>
<td>AP Spanish</td>
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World Language Course Offerings

**FRENCH I**

Grades: 9, 10, 11, 12  
Full Year Course  
Credits: 4  
Level: College Prep

This is a beginning course with emphasis on listening, speaking, reading, and writing the French language. An awareness and appreciation of the French-speaking world is developed based on related activities. Basic grammar is introduced to enable students to communicate information concerning a wide range of topics. Classroom lessons and activities, as well as daily homework assignments, are used to teach, reinforce, and supplement the beginning development of French language skills.

**FRENCH II**

Grades: 9, 10, 11, 12  
Full Year Course  
Credits: 4  
Level: College Prep

**Prerequisite:** Successful completion of French I.

In this course students will continue to develop their skills in listening, speaking, reading, and writing the French language. Students’ awareness and appreciation of the French-speaking world increases through lessons on French culture. More advanced grammar is introduced to enable students to communicate more effectively on a wide range of topics. Lessons and activities, as well as daily homework assignments are used to teach, reinforce, and supplement the ongoing development of French language skills.

**HONORS FRENCH II**

Grades: 9, 10, 11, 12  
Full Year Course  
Credits: 4  
Level: Honors

**Prerequisite:** B- or better in Honors French I or teacher recommendation

Students in French II Honors are expected to be highly motivated as evidenced by their ability to take responsibility for their own progress in French. The pace of this course is rigorous and goes beyond the state standards in depth and independent learning. Instruction is geared towards preparing students to continue their study of French through Advanced Placement.

In this course students continue to develop their skills in listening, speaking, reading, and writing the French language. Students’ awareness and appreciation of the French-speaking world increases through lessons on French culture. More advanced grammar is introduced to enable students to communicate more effectively on a wide range of topics. Classroom lessons and activities, as well as daily homework assignments are used to teach, reinforce, and supplement the ongoing development of French language skills.
**FRENCH III**

Grades: 10, 11, 12  
Full Year Course  
Credits: 4  
Level: College Prep  

**Prerequisite:** Successful completion of French II  

In this course, students begin to refine their ability to listen, speak, read, and write in French. The use of spoken French in the classroom increases throughout the year. Students continue to learn about the life, customs, history, and culture of countries in which French is spoken. Advanced grammar is presented to enable students to communicate in French with increasingly advanced accuracy. Students in this course begin to read intermediate level short stories and novels, write compositions on various topics, as well as make oral presentations in French. Classroom lessons and activities, as well as daily homework assignments are used to teach, reinforce, and supplement the ongoing development of French language skills.

**HONORS FRENCH III**

Grades: 10, 11, 12  
Full Year Course Credits: 4  
Level: Honors  

**Prerequisite:** B- or better in Honors French II or teacher recommendation  

Students in French III Honors are expected to be highly motivated as evidenced by their ability to take responsibility for their own progress in French. The pace of the honors course is rigorous and goes beyond the state standards in depth and independent learning. Honors instruction is geared towards preparing students to continue their study of French through Advanced Placement.

In this course, students begin to refine their ability to listen, speak, read, and write in French. The use of spoken French in the classroom increases throughout the year. Students continue to learn about the life, customs, history, and culture of countries in which French is spoken. Advanced grammar is presented to enable students to communicate in French with increasingly advanced accuracy. Students in this course begin to read intermediate level short stories and novels, write compositions on various topics, as well as make oral presentations in French. Classroom lessons and activities, as well as daily homework assignments are used to teach, reinforce, and supplement the ongoing development of French language skills.

**FRENCH IV**

Grades: 11, 12  
Full Year Course  
Credits: 4  
Level: College Prep  

**Prerequisite:** Successful completion of French III or teacher recommendation  

This course prepares students to increase their accuracy and appropriateness of using spoken French in formal presentations and spontaneous conversations when narrating, describing, seeking and giving information. Students continue to read authentic material, particularly on familiar subjects, and discuss contemporary subjects. They also write about these topics in some detail. A broader knowledge of cultural contributions in the arts, historical and current events in the francophone culture is developed.
HONORS FRENCH IV

Grades: 11, 12
Full Year Course
Credits: 4
Level: Honors

Prerequisite: B- or better in Honors French III or teacher recommendation

In this course, students continue to refine their ability to listen, speak, read, and write in French. French is spoken in the classroom throughout the year by both teacher and students. In this course, students receive an in-depth review of advanced French grammar, as well as an intense study of thematic vocabulary. Students in this course read intermediate/advanced-level passages, short stories, and novels, write compositions, and make oral presentations. Students in French IV are expected to be highly self-motivated as evidenced by their ability to complete all assignments, prepare well for classes, and take responsibility for their own progress in French.

AP FRENCH

Grade: 12
Full Year Course
Credits: 4
Level: Advanced Placement

Prerequisite: B or better in Honors French IV or teacher recommendation

In this course, students continue to refine their ability to listen, speak, read, and write in French. French is spoken in the classroom throughout the year by both teacher and students. In this course, students receive an in-depth review of advanced French grammar, as well as an intense study of thematic vocabulary that will prepare them for the AP French Language Exam. Students in this course read intermediate/advanced-level passages, short stories, and novels, write compositions, and make oral presentations. Students in AP French are expected to be highly self-motivated as evidenced by their ability to complete all assignments, prepare well for classes, and take responsibility for their own progress in French. Students and parents should know that this course is for students who are interested in completing studies comparable in content and difficulty to courses in French Composition and Conversation at the third-year college level. All students who enroll in this course are required to take the AP French Language exam given in May.

LATIN I

Grades: 9, 10, 11, 12
Full Year Course
Credits: 4
Level: College Prep

In this course students are taught the basic forms and syntax of the five declensions and four conjugations of the Latin language, build a Latin vocabulary, and expand their understanding of English vocabulary and grammar. Students develop and improve their memorization and analytical skills through nightly homework and frequent quizzes. Through reading, translation, and creation of projects, students explore the culture and civilization of Ancient Rome and the influences of this society upon subsequent civilizations.
LATIN II

Grades: 9, 10, 11, 12  
Full Year Course  
Credits: 4  
Level: College Prep

Prerequisite: Successful completion of Latin I

This course builds on the study of grammar and vocabulary (both Latin and English) begun in Latin I. By the end of Latin II students will have studied most of the elements of Latin grammar and will be reading and translating increasingly complex material. Students continue their study of Roman culture and civilization and are introduced to some of the important events and figures in Roman history.

HONORS LATIN II

Grades: 9, 10, 11, 12  
Full Year Course  
Credits: 4  
Level: Honors

Prerequisite: A- or better in Latin I or teacher recommendation

Students in Latin II Honors are expected to be highly motivated as evidenced by their ability to take responsibility for their own progress in Latin. The pace of this course is rigorous and goes beyond the state standards in depth and independent learning. Instruction is geared towards preparing students to continue their study of Latin through Advanced Placement.

This course builds on the study of grammar and vocabulary (both Latin and English) begun in Latin I. By the end of Latin II students will have studied most of the elements of Latin grammar and will be reading and translating increasingly complex material. Students continue their study of Roman culture and civilization and are introduced to some of the important events and figures in Roman history.

LATIN III

Grades: 10, 11, 12  
Full Year Course  
Credits: 4  
Level: College Prep

Prerequisite: Successful completion of Latin II

In Latin III students review the basic grammatical elements of Latin and are taught the few remaining constructions of complex sentences. The focus of the course, however, is on reading and translating Latin stories and literature of increasing authenticity and complexity. Students study, through literature, the important figures in Roman history from the Republic through the early Empire and thereby gain a fuller sense of the scope of Latin literature.
**HONORS LATIN III**

*Grades:* 10, 11, 12  
*Full Year Course*  
*Credits:* 4  
*Level:* Honors

**Prerequisite:** B- or better in Honors Latin II or teacher recommendation

Students in Latin III Honors are expected to be highly motivated as evidenced by their ability to take responsibility for their own progress in Latin. The pace of this course is rigorous and goes beyond the state standards in depth and independent learning. Honors instruction is geared towards preparing students to continue their study of Latin through Advance Placement.

In Latin III students review the basic grammatical elements of Latin and are taught the few remaining constructions of complex sentences. The focus of the course, however, is on reading and translating Latin stories and literature of increasing authenticity and complexity. Students study, through literature, the important figures in Roman history from the Republic through the early Empire and thereby gain a fuller sense of the scope of Latin literature.

**HONORS LATIN IV**

*Grades:* 11, 12  
*Full Year Course Credits:* 4  
*Level:* Honors

**Prerequisite:** B- or better in Honors Latin III or teacher recommendation

Latin IV students will study a survey of Latin poetry from its archaic beginnings to the literature of the high empire including selections from Catullus, Vergil, Horace, Ovid, Livy, Pliny, Caesar, Cicero, Martial, Ennius, and Lucretius. In order to prepare for the rigors of AP Latin V, students will engage in an intensive study of Latin poetry, learning to analyze themes, grammatical structures, figures of speech and metrical devices. Students will also learn to write analytical essays on Latin poetry in preparation for the free-response section of the Latin AP exam. Examination of the cultural, social, and political context of the literature is ongoing as a means for building essential background knowledge. Students are responsible for increasing amounts of translation as their skills develop. Conscientious completion of homework, attention to detail, and active participation in lively class discussions is essential. This course is a prerequisite for AP Latin.

**LATIN IV/V (A/B Alternating Years) 2019-2020**  
462  
*Grades:* 11, 12  
*Full Year Course*  
*Credits:* 4  
*Level:* College Prep

**Prerequisite:** Successful completion of Latin III or Honors Latin IV.

Latin IV/V continues to expand and reinforce cultural and grammatical concepts developed in previous years. The Latin IV/V class will alternate focus between epic and drama in course A and poetry and oratory in course B. Writers such as Plautus, Catullus, Horace, Cicero and Ovid will be examined both for their cultural and historical impact. The focus of this course will be on comprehension and textual analysis versus literal translations. This class is highly recommended for students who are not interested in AP Latin, but would like to continue their study of Roman culture.

**Course A:** Epic and Drama: Selections from Ovid’s *Metamorphoses* in semester 1; selections from Plautus’ *Aulularia* and *Menaechmi* in semester 2.

**Course B:** Poetry and Oratory: Selected poems of Catullus and Horace in semester 1; selections from Cicero’s *Pro Archia*, *Catilinarian Orations*, and *Philippics*. 
**AP LATIN**

*Grade: 12*

*Full Year Course*

*Credits: 4*

*Level: Advanced Placement*

**Prerequisite:** B or better in Honors Latin IV or teacher recommendation

This Latin literature course centers on the AP passages from Caesar's *De Bello Gallico* and Vergil's epic poem, *The Aeneid.* Students will advance their skills and understanding of Latin poetry in this course, refining their knowledge of Latin grammar and syntax, allusion, context, meter and literary devices. Students will study the literary techniques of Caesar and Vergil with close readings and instruction in stylistic analysis, sharpening their ability to comprehend, translate, analyze and interpret the literature read in the course. Ongoing study of the cultural, social and political context of Caesar and Vergil's literature will continue to strengthen students’ background knowledge. Students are responsible for increasing amounts of translation as their skills develop. Conscientious completion of homework, attention to detail, active participation in class discussions and completion of a summer reading assignment prior to the start of school is expected. All students who enroll in this course are expected to take the AP Latin Caesar and Vergil exam in May.

**SPANISH I**

*Grades: 9, 10, 11*

*Full Year Course*

*Credits: 4*

*Level: College Prep*

This is a beginning course with emphasis placed on listening, speaking, reading, and writing the Spanish language. An awareness and appreciation of the Spanish-speaking world is developed based on related activities. Basic grammar is introduced to enable students to communicate information concerning a wide range of topics. Classroom lessons and activities, as well as daily homework assignments, are used to teach, reinforce, and supplement the beginning development of Spanish language skills.

**SPANISH II**

*Grades: 9, 10, 11, 12*

*Full Year Course*

*Credits: 4*

*Level: College Prep*

**Prerequisite:** Successful completion of Spanish I

In this course students continue to develop their skills in listening, speaking, reading, and writing the Spanish language. Students’ awareness and appreciation of the Spanish-speaking world increases through lessons on Hispanic culture. More advanced grammar is introduced to enable students to communicate more effectively on a wide range of topics. Classroom lessons and activities, as well as daily homework assignments are used to teach, reinforce, and supplement the ongoing development of Spanish language skills.
HONORS SPANISH II 423

Grades: 9, 10, 11, 12
Full Year Course
Credits: 4
Level: Honors
Prerequisite: A- or better in Spanish I or teacher recommendation

Students in Spanish II Honors are expected to be highly motivated as evidenced by their ability to take responsibility for their own progress in Spanish. The pace of this course is rigorous and goes beyond the state standards in depth and independent learning. Instruction is geared towards preparing students to continue their study of Spanish through Advanced Placement.

In this course students continue to develop their skills in listening, speaking, reading, and writing the Spanish language. Students’ awareness and appreciation of the Spanish-speaking world increases through lessons on Hispanic culture. More advanced grammar is introduced to enable students to communicate more effectively on a wide range of topics. Classroom lessons and activities, as well as daily homework assignments are used to teach, reinforce, and supplement the ongoing development of Spanish language skills.

SPANISH III 433

Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: College Prep
Prerequisite: Successful completion of Spanish II

In this course, students will work towards the goal of communicative competency in realistic situations. Students will continue to learn how to function in a variety of situations in which Spanish may be spoken, including ordering in a restaurant and traveling. Students will also study Spanish culture, including topics such as travel and tourism. Students will work on developing language learning strategies. This course is taught at a pace that allows for the appropriate development of fundamental skills and enhanced proficiency in Spanish. The use of spoken Spanish in the classroom increases throughout the year, with the goal of all Spanish by the end of the year.

HONORS SPANISH III 435

Grades: 10, 11, 12
Full Year Course
Credits: 4
Level: Honors
Prerequisite: B- or better in Honors Spanish II or teacher recommendation

Students in Spanish III Honors are expected to be highly motivated as evidenced by their ability to take responsibility for their own progress in Spanish. Students in Spanish III Honors begin to read intermediate-level short stories and novels, write compositions on various topics, as well as make oral presentations in Spanish. The pace of this course is rigorous and goes beyond the state standards in depth and independent learning. Instruction at this level is geared towards preparing students to take Spanish IV Honors and Advanced Placement Spanish.

In this course, students will work towards the goal of communicative competency in realistic situations. Students will continue to learn how to function in a variety of situations in which Spanish may be spoken, including ordering in a restaurant and traveling. Students will also study Spanish culture, including topics such as travel and tourism. Students will work on developing language learning strategies. This course is taught at a pace that allows for the appropriate development of fundamental skills and enhanced proficiency in Spanish. The use of spoken Spanish in the classroom increases throughout the year, with the goal of all Spanish by the end of the year.
SPANISH IV

Grades: 10,11,12
Year-Long Course
Credits: 4
Level: CP

**Prerequisite:** Successful completion of Spanish III.

This course offers students the opportunity to continue to refine their linguistic and communicative skills by using Spanish as the primary language of instruction and learning. Students will further develop their ability to listen, speak, read, and write in Spanish while strengthening their knowledge of the Spanish-speaking world. Advanced Spanish grammar and thematic vocabulary will be emphasized through reading of intermediate/advanced level reading selections from literature (short stories and novels), the press, multimedia resources and other authentic documents. Conversational skills will be enhanced through task oriented activities, project presentations, skits, and role playing.

HONORS SPANISH IV

Grades: 11, 12
Full Year Course
Credits: 4
Level: Honors

**Prerequisite:** B- or better in Honors Spanish III or teacher recommendation

In this course, students continue to refine their ability to listen, speak, read, and write in Spanish. Spanish is spoken in the classroom throughout the year by both teacher and students. In this course, students receive an in-depth review of advanced Spanish grammar and extensive thematic vocabulary that enable them to read intermediate-level passages, short stories and novels, write compositions, and make oral presentations. Students in Spanish IV are expected to be highly self-motivated as evidenced by their ability to take responsibility for their own progress in Spanish. This is an honors level course and the pace is rigorous and goes beyond the state standards in depth and independent learning. Instruction at this level is geared towards preparing students to take the AP Spanish course in their senior year.

SPANISH V

Grades: 11,12
Year-Long Course
Credits: 4
Level: CP

**Prerequisite:** Successful completion of Spanish IV/V.

The central focus of this course is to improve students’ communicative competence. This course offers students the opportunity to continue to refine their linguistic and communicative skills by using Spanish as the primary language of instruction and learning. Students will further refine their linguistic and communicative skills as they continue to develop their ability to listen, speak, read, and write in Spanish while strengthening their knowledge of the Spanish-speaking world through a wide range of task-oriented activities. Advanced grammatical practice and review in meaningful and engaging contexts will allow students to solidify their oral and written proficiency.
AP SPANISH

Grade: 12
Full Year Course
Credits: 4
Level: Advanced Placement
Prerequisite: B or better in Honors Spanish IV or teacher recommendation

In this course, students continue to refine their ability to listen, speak, read, and write in Spanish. Spanish is spoken in the classroom throughout the year by both teacher and students. This course prepares students for the AP Spanish Language Exam. In this course, students receive an in-depth review of advanced Spanish grammar, as well as an intense study of thematic vocabulary. Students in this course read intermediate/advanced-level passages, short stories, and novels, write compositions, and make oral presentations. Students in AP Spanish are expected to be highly self-motivated as evidenced by their ability to complete all assignments and preparation for classes and take responsibility for their own progress in Spanish. Students and parents should know that this course is for students who are interested in completing studies comparable in content and difficulty to courses in Spanish Composition and Conversation at the third-year college level. All students who enroll in this course are required to take the AP Spanish Language exam given in May.