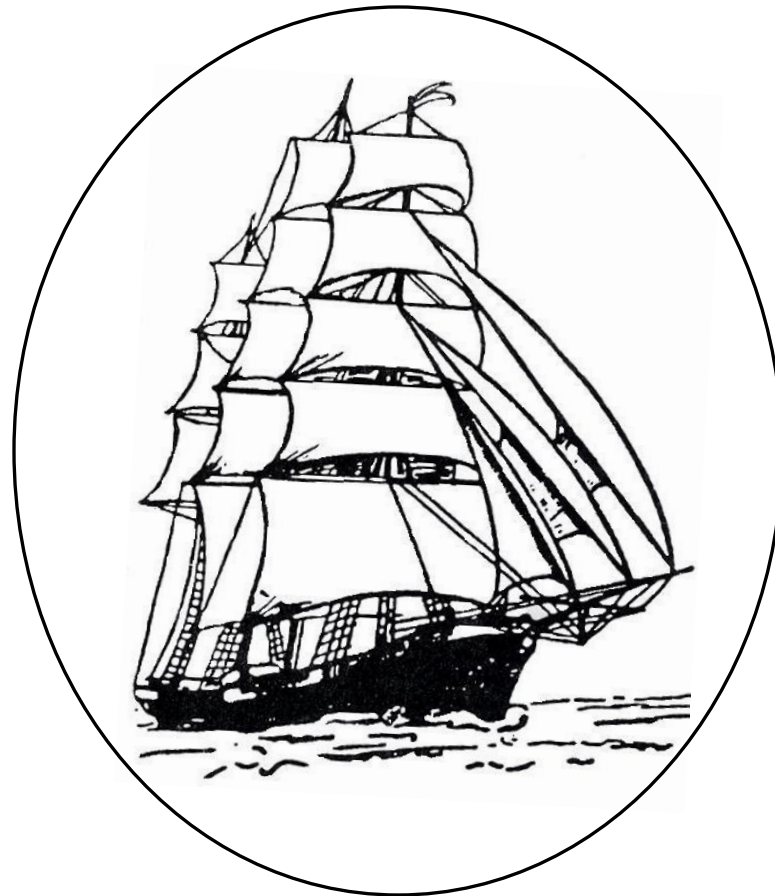


Newburyport
High
School

2018 – 2019

Program of Studies



**Newburyport High School
Program of Studies
2018 - 2019**

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NONDISCRIMINATION: COMPLIANCE STATEMENT

The Newburyport Public School System does not discriminate on the basis of race, color, religion, national origin, age, gender, sexual orientation, or disability in admission to, access to, employment in, or treatment in its programs and activities.

The Newburyport Public School System is committed to maintaining a school environment free of harassment based on sex, race, color, national origin, religion, age, disability, sexual orientation or gender identity. Harassment by administrators, certified and support personnel, students, vendors and other individuals at school or at school-sponsored events are unlawful and are strictly prohibited. The Newburyport Public School System requires all employees and students to conduct themselves in an appropriate manner with respect to their fellow employees, students and all members of the school community.

DISCLAIMER STATEMENT

Subsequent to publication of this catalog, Newburyport High School reserves the right to make changes in courses, program requirements, policy and regulations as circumstances, funding, and enrollment dictate. **There is no guarantee that any course listed in this catalog will be offered in any given semester.** The on-going work of aligning the curriculum with the Massachusetts Frameworks will, of necessity, result in changes in course content. Students and parents will be informed if changes in course content create a significant difference between the course descriptions as it appears in this *Program of Studies* and the revised course content.

Newburyport High School Mission Statement
Newburyport High School strives for excellence. We believe that this quest for excellence is a partnership among all aspects of a student's life: home, community, schools, educators, and peers. NHS values the student as an independent, creative learner, and provides diverse learning environments to nurture different abilities and aspirations. NHS honors its traditions while embracing change and progress to prepare its students to succeed in a globally competitive world. Our mission is to foster a sustained passion for learning that each student will carry throughout life.

Expectations for Student Learning

Students of NHS will demonstrate

Academic

- proficiency in a diverse collection of communication techniques by
 - writing clearly, concisely, and persuasively,
 - reading widely across subject areas,
 - listening and speaking effectively, and
 - using technology responsibly to enhance education.
- problem-solving and critical thinking by
 - making informed decisions,
 - working individually and/or collectively, and
 - using time and learning resources efficiently.

Social

- recognition and respect for individual differences.
- behaviors and habits of a healthy lifestyle by
 - making informed personal, life, and career decisions, and
 - taking personal responsibility for the positive and negative effects of their decisions.

Civic

- awareness of their role in the community, country, and world by
 - participating in the local community,
 - acquiring knowledge of the diverse characteristics of the country and the world, and
 - understanding their potential to influence local, national, and global developments.

Faculty Approved 4/7/2011

School Committee Approved 5/16/2011



Michael Parent
Principal

The High School
241 High Street
Newburyport, Massachusetts
01950

Michael Testa
Associate Principal

Kyle Hodsdon
Athletic Director

Dear Parents and Students:

In the best educational interest of the student, great care should be taken by the student, his or her parents, and school personnel in making the selection of appropriate courses during the registration process. Parents and students should approach the course selection procedure as a multi-year process. Carefully choose courses that will challenge the student and provide the necessary prerequisites for future courses that the student aspires to take. The program that is finally approved by the student and his/her parents will be the schedule the student is expected to complete during the next school year.

It is our sincere hope that the new course selection timeline, combined with our new student information system's schedule building, will mean that all current students have a completed course schedule by the end of this current school year. Students and parents must abide by the timeline and deadlines outlined in our process.

Students will not be allowed to drop or change semester courses/teachers in the middle of a semester, or yearlong courses at semester break. Building a high school master schedule is a very complex and time-consuming effort. Having the in-depth dialogue about your son or daughter's educational interests, goals, and aspirations will make the entire process more successful for all interested parties.

Mike Parent
Principal

MassCore

On March 27, 2007, Commissioner Driscoll recommended the following course of study to the Massachusetts Board of Education.

Secondary School Improvement- MassCore- 21st Century Learning/ Skills- problem solving, collaboration, critical thinking, communication

Massachusetts Recommended High School Core Program of Studies

English/Language Arts	4 credits
Mathematics	4 credits Including the completion of Algebra II or complete the Integrated Math equivalent. All students are required to take a math course during their senior year.
Science	3 credits of lab-based science
History/ Social Science	3 credits Including US History and World History
Foreign Language	2 credits Of the same language
Physical Education Health	As required by law shall be taught as a required subject in all grades.
Electives	6 credits Visual and Performing Arts, Career and Technical Education, Technology, or any of the subjects above
	22 Total Credits
Additional Learning Opportunities	Complete as many of the following as possible: Advanced Placement (AP) Capstone or Senior Project Dual Enrollment: courses taken for both high school and college credit Online course for high school or college credit Service Learning Work-based Learning

High schools may have other local graduation requirements that apply to all students. Courses included in MassCore should be rigorous, engaging and based on appropriate grade level standards in the Massachusetts Curriculum Frameworks.

* The Science and Technology/Engineering Framework include standards in four strands:

- Earth and Space Science
- Life Science (Biology)
- Physical Sciences (Chemistry and Physics)
- Technology/Engineering

** Vocational-technical high school graduates who do not complete the two required college preparatory foreign language courses may fulfill the Massachusetts Core Curriculum by adhering to the **Board of Higher Education's Admissions exception allowances.**

*A unit represents a full academic year of study or its equivalent in a specific subject.

** Students enrolled in a state –approved Career and Technical Education program of studies have the option of opting out of Foreign Language, and Visual/Performing Arts and still fulfill MassCore.

Newburyport High School will be moving into alignment.

ACADEMIC REQUIREMENTS FOR DIPLOMA

I. Credits and Graduation Requirements

- A. Newburyport High School credits for graduation are earned by students upon successful completion of a course of study. Students earn 2.5 credits per semester upon successful completion of a course that meets one block every other day through a semester.
- B. In order to qualify for graduation, students must have earned a minimum of **110** credits in grades 9-12 and must successfully complete the subjects included in the **Core Curriculum**, as described below.
- C. Students must pass the state required MCAS (Massachusetts Comprehensive Assessment System) in order to obtain a diploma from Newburyport High School

Beginning with the class of 2010, students must either earn a scaled score of at least 240 on both grade 10 MCAS ELA and Mathematics tests, or earn a scaled score between 220 and 238 on both tests and fulfill the requirements of an Educational Proficiency Plan (EPP). EPP's can be further explained by speaking with Student Support or going online to www.doe.mass.edu.

In addition, beginning with the class of 2010, student must earn a scaled score of at least 220 on one of the following high school MCAS Science and Technology/Engineering (STE) tests: Biology, Chemistry, Introductory Physics, or Technology/Engineering.

- D. Each year, every student is required to carry a minimum of 5 core subjects, at least one elective each semester and one semester of physical education. We recommend that each student select a balanced and intensive program to fulfill his/her educational needs and career objectives. (Students planning to continue their education at a college or university should read the section Higher Education Information)

II. Promotion Requirements

- A. To be classified as a **Sophomore**, the student must have earned **27.50** credits and have passed a full year of English.
- B. To be classified as a **Junior**, the student must have earned **55** credits and have passed two full years of English.
- C. To be classified as a **Senior**, the student must have earned **80** credits and have passed three full years of English.

III. Core Curriculum

Newburyport High School credits for graduation are obtained by having attended NHS for at least one semester. All courses at Newburyport High School are semester courses that normally yield a total of 2.5 graduation credits. Credit values for individual courses are contained in the description presented in the current *Program of Studies* and are granted to students upon successful completion of a given course of study. To graduate from NHS, students must accumulate 110 credits, pass all of the required courses of study, pass the state-mandated MCAS tests, and have **attended NHS for at least one semester.**

The subject areas and credit quantities required of **all** students are as follows:

English	4 years	20 credits
History	4 years	20 credits
Mathematics	3 years	15 credits
Science	3 years	15 credits
World Language	2 years	10 credits
Physical Education	4 years	10 credits
Visual and Performing Arts	<u>1 year</u>	<u>5 credits</u>
		95 credits

GRADING SYSTEM

I. Marking Periods

- A. Report cards are issued twice per year. Grades are cumulative for the semester.
- B. Progress reports are issued electronically, midway through the marking term. This quarterly check point is used to determine academic eligibility for extracurricular activities and athletics.

II. Explanation of Marks

Newburyport High School uses the following system of grades, with plus or minus where appropriate:

- A Indicates general excellence.
- B Indicates consistently good work. However, the student has not demonstrated the degree of thoroughness, initiative, or skills necessary to attain a higher grade.
- C Indicates average accomplishment.
- D Indicates work inferior in quality, skill and thoroughness. It is the lowest passing grade.
- F Indicates failure. Courses in which an F is received will not earn credit toward graduation.

A grade of "**Inc**" (Incomplete) is assigned when a marking period's work is incomplete as a result of illness or other serious reason. In most cases, a student has two weeks (10 school days) after the end of the marking period in which to complete the required work. If the work is not made up within that time, the **Inc** is changed to **F**. Exceptions to this policy shall be determined on an individual basis.

In certain instances, upon the recommendation of the instructor, a grade of "**P**" (Passing) may be assigned. In such cases, the course will not be included when the student's grade point average is calculated.

A grade of "**MED**" (Medical) is assigned when the student has received a medical exemption from his/her academic responsibilities due to medical reasons. A medical exemption must be recommended by a medical doctor. No credit will be received. Students are expected to make up graduation required courses.

A grade of "**FA**". Administrative Failure, is assigned when a student is in violation of the attendance policy.

Except for courses taken to make-up a failure, courses taken at other schools will not count toward their GPA at Newburyport High School.

III. Grading System

Numeric Equivalents of Letter Grades

<u>Letter Grade</u>	<u>Numeric Grade</u>	<u>Grade on a 4.0 Scale</u>
A+	98-100	4.0*
A	93-97	4.0
A-	90-92	3.7
B+	87-89	3.3
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	65-66	1.0
F	0-64	0

Grade Point Average Calculation

Final Letter Grade	College Course Numerical Grade	Honors Course Numerical Grade	Advanced Placement Numerical Grade
A+	4.00*	5.16	6.02
A	4.00	4.80	5.60
A-	3.70	4.44	5.18
B+	3.30	3.96	4.62
B	3.00	3.60	4.20
B-	2.70	3.24	3.78
C+	2.30	2.76	3.22
C	2.00	2.40	2.80
C-	1.70	2.04	2.38
D+	1.30	1.56	1.82
D	1.00	1.20	1.40
F	0.00	0.00	0.00

* Numerical Grade of 4.30 for Weighted GPA calculation

Courses are 2.5 credits per semester

Weighted GPA

All College, Honor, and Advanced Placement courses are weighted as per chart

Un-weighted GPA

All courses are calculated at College level

Computation of GPA

1. For each course multiply the weight of the grade (see above) by the credits to get grade points for that course.
2. Add together all the grade points earned.
3. Divide the total of grade points (from step 2) by the number of credits for all courses.

Grade Point Average and Class Rank

Juniors receive their GPA's in February of their junior year. This includes all grades up to the first semester of Junior year. Students in their senior year receive their GPA in September. This GPA includes all grades through their junior year. Seniors again receive their GPA in February. (Students are reminded that except for courses taken to make up failure, courses taken at other schools are not counted toward their GPA at Newburyport High School).

IV. Levels of Instruction

Most of the courses at Newburyport High School are offered at the college prep level. In addition, certain courses are also offered at the honors level, Advanced Placement courses are available in several subject areas. Additional academic opportunities are provided through educational support services including academic support, learning lab, team – taught courses, language lab and our Alternative Education Program.

Certain courses are offered at specific grade levels only to students, who meet certain prerequisites. When these criteria exist, they are so noted in the course descriptions listed in this book.

Advanced Placement Expectations

All students that take an AP course, must sign a contract of AP Student Expectations. All students who take an AP course will also be required to take the AP exam and pay in full for the exam. Seniors who take a year of an AP course will take the AP exam as their final assessment. If a student does not take the AP exam, then the consequences will be as follows:

- The student will not receive credit for the AP course.
- The student will receive a “Withdrawn” for the AP course on his/her transcript.
- The college to which the student has applied will be notified that the student did not take the AP examination.
- Students are not allowed to drop AP courses.
- Students that do not complete AP summer assignments will not be allowed to drop the course.
- Counselor or Administrative approval is required to enroll in more than three (3) AP Courses.

V. Honor Roll

The Honor Roll at Newburyport High School consists of the levels of High Honors and Honors. In order to be considered for placement on either Honor Roll, a student must be enrolled in a minimum of 6 classes and 1 study hall one semester and 7 classes with no study hall the other semester. The Honor Roll is computed and announced at the end of each semester.

- High Honors are awarded to students who have received only A's (A+, A, A-)
- Honors are awarded to students who have received only A's and B's (A+, A, A-, B+, B, B-)

Note: If a student is required to take a course that uses the P/F grading system, a P replaces the minimum B-grade for qualifying for the honor roll.

Higher Education Information

For Students Planning to Attend a Four-Year College Or University after High School Graduation

Newburyport High School uses the Admissions Standards Policy adopted in 1996 by the Massachusetts Board of Higher Education as a minimum eligibility guide to course selections for students planning to attend a four-year college or university. In some instances, Newburyport High School's requirements exceed the course-work required by the Board of Regents so that students may be eligible for admission to the most selective colleges.

Minimum Required College Preparatory Coursework for Admission to Massachusetts State Colleges and University of Massachusetts

English	4 courses
Mathematics	3 courses (Algebra I & II, Geometry, as well as additional coursework. U. Mass, Amherst admission into Engineering, Management, and Computer Science requires the completion of 4 courses.)
Sciences	3 courses (including 2 lab courses)
Social Science	2 courses (including 1 course in U.S. History)
Foreign Language	2 courses in a single language
Elective subjects	2 courses (Arts, Humanities, Computer Sciences or the above subjects)

Criteria for College Admission

College admission requirements vary widely from school to school. As a guideline, colleges and universities usually consider the following factors:

***Academic Record** (grades received and levels of courses)

- Rank in Class
- Grade Point Average (GPA)

***Results of College Entrance Examination Board (CEEB) Examinations**

(Some Colleges, primarily in the South and Mid-West require the American College Testing Program (ACT) rather than the SAT I.)

- Scholastic Assessment Test (SAT I)
- Subject Tests (SAT II)
- TOEFL (for students for whom English is not their first language)

***Writing Sample**

***Teacher/Counselor/Principal Recommendations**

***Extra-curricular Activities** (including work experiences)

Prerequisites for Honors Placement

Prerequisites are utilized in the recommendation process to insure that students have acquired sufficient mastery of material that will be needed in the next level course. Students who do not receive the grade necessary to meet the prerequisite may still be recommended for the next level course if the teacher, in consultation with the department chair, feels that, regardless of the grade, the student has the skills and commitment to be successful in the next course.

As a general guideline, in order to receive an honors recommendation for the next level:

A student presently in an honors level course should have a solid academic standing and demonstrate a high level of consistent effort and motivation.

A student who is presently in a college level course must be highly motivated, have an A average or higher in their present college prep course, and receive a teacher recommendation. They must also have a willingness to complete additional work (if needed) to get caught up to the honors curriculum.

To receive a recommendation for an AP course, students must demonstrate interest, effort, motivation, and receive a teacher recommendation. Students may also be required to do a writing sample or other special prerequisites.

Placement process for 8th graders entering 9th grade

To be recommended for an Honors Level course in a specific subject, the student must have a 93% average or higher in the corresponding 8th grade subject, their teacher recommendation.

Courses marked with **(Flex Class)** will be held outside of the regular school day.

ENGLISH / LANGUAGE ARTS

REQUIREMENT:

Newburyport High School requires that all students complete 4 years of study in English.

The English Department has implemented the Common Core Standards – a national curriculum guideline for learning, teaching, and assessment in English/Language Arts as accepted by the Board of Education. All students must follow the sequence of required courses listed below.

SEQUENCE:

- **Grade 9 Freshman Literature/Composition I & II**
- **Grade 10 Sophomore Literature/Composition I & II**
- **Grade 11 Junior Literature/Composition I & II**
- **Grade 11 Advanced Placement English Language and Composition**
- **Grade 12 Senior English Seminar I & II**
- **Grade 12 Advanced Placement Literature and Composition**

PLACEMENT:

For placement in an Honors or AP course please see Prerequisites for Honors Placement and the Placement process for 8th graders entering 9th grade criteria found on p. 11 of the Program of Studies.

0112 Freshman Literature/Composition I & II Grade 9 Full Year 2.5 Credits/semester

Freshman Literature/Composition I and II curriculum for ninth grade is aligned with the Common Core and complements the ninth grade World History curriculum. Emphasis is placed on the humanities approach to the study of language, literature, and history. The World Literature course is designed to advance student reading, writing, speaking, listening, viewing, and presenting skills. A variety of genres will reveal how human beings, for all their cultural differences, are members of one universal family. Vocabulary development and the knowledge and accurate use of grammar in speaking and writing are consistently reinforced. Emphasis on the formation of strong topic sentences and the development of paragraphs will continue. Students will also demonstrate skill in writing the multi-paragraph expository and persuasive essay. The end of the year Freshman Portfolio demonstrates students' best work. Time frame: Ancient Greece to Industrial Revolution.

0113 Honors Freshman Literature/Comp I & II Grade 9 Full Year 2.5 Credits/semester

The Honors Freshman Literature/Composition course is a more in-depth, fast-paced program requiring more extensive reading and writing than is outlined for College Prep. The course/class is offered to students who are above average readers with advanced language skills and are motivated to read and work at a pace that requires considerable effort and ability. Honors students learn to compose the multi-paragraph expository and persuasive essays and use these to demonstrate literary analysis skills. Vocabulary development and the knowledge and accurate use of grammar in speaking and writing are consistently reinforced. The end of the year Freshman Portfolio demonstrates students' best work. Time frame: Ancient Greece to Industrial Revolution.

0122 Sophomore Literature/Composition I & II Grade 10 Full Year 2.5 Credits/semester

The Sophomore Literature/Composition curriculum for tenth grade is aligned with the Common Core and complements the tenth grade World History curriculum. A greater emphasis is placed on a humanities approach to the study of language, literature, and history. The Course is designed to advance student reading, writing, speaking, listening, viewing, and presenting skills. A variety of genres will reveal how human beings, for all their cultural differences, are members of one universal family. Vocabulary development and the knowledge and accurate use of grammar in speaking and writing are consistently reinforced. A major emphasis is placed on multi-paragraph expository writing skills and their application to literature analysis. SAT, MCAS, and PARCC preparation are significant in the design of instructional strategies and assessments within the curriculum. This course culminates with student presentation of the Sophomore Exposition.

0123 Honors Sophomore Literature/Comp I & II Grade 10 Full Year 2.5 Credits/semester

The Honors Sophomore Literature/Composition course is an in-depth, fast-paced program requiring more extensive reading and writing. The course/class is offered to students who are above average readers with advanced language skills and are motivated to read, write and work at a pace that requires considerable effort and ability. Honors students continue to demonstrate proficiency in the multi-paragraph expository and persuasive essay and their application to literary analysis. SAT, MCAS, and PARCC preparation are significant in the design of instructional strategies and assessments within the curriculum. This course culminates with student presentation of the Sophomore Exposition.

0132 Junior Literature/Composition I & II Grade 11 Full Year 2.5 Credits/semester

The Junior Literature/Composition curriculum for eleventh grade is aligned with the Common Core and complements the United States History curriculum. Special emphasis is placed on character analysis, understanding of plot devices, and themes. A major emphasis is placed on multi-paragraph expository and persuasive writing skills and their application to literary analysis. Skill development continues in vocabulary and grammar usage, writing process, and oral presentation. SAT and vocabulary application are critical in this instructional year. Emphasis is placed on the importance of American values as they shape our culture. The Junior Analytical Research Paper (JARP) final assessment will demonstrate students' understanding of content and skills developed this year in both history and English classes by formulating a focus on a chosen theme/idea, gathering valuable resources, organizing a clear argument, and synthesizing their evidence in a written format.

0133 Honors Junior Literature/Comp I & II Grade 11 Full Year 2.5 Credits/semester

This course is designed for the able student of English who wishes to move at an accelerated pace. Extensive reading and discussion of literature is required. The American Literature curriculum for eleventh grade is aligned with the Common Core and complements the second semester United States History curriculum. Special emphasis is placed on character analysis, understanding of plot devices, and themes. A major emphasis is placed on multi-paragraph expository and persuasive writing skills and their application to literary analysis. Skill development continues in vocabulary and grammar usage, writing process, and oral presentation. SAT and vocabulary application are critical in this instruction year. Emphasis is placed on the importance of American values as they shape our culture. The Junior Analytical Research Paper (JARP) assessment will demonstrate students' understanding of content and skills developed this year in both history and English classes by formulating a focus on a chosen theme/idea, gathering valuable resources, organizing a clear argument, and synthesizing their evidence in a written format. Students considering this course are to refer to the Prerequisites for Honors Placement section of the Program of Studies.

0134 Advanced Placement English Language and Comp Grade 11 Full Year 2.5 Credits/semester

Students are required to take the Advanced Placement English test given by the College Board.

The AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The goals of an AP English Language and Composition course are diverse because the college composition course is one of the most varied in the curriculum. The college course provides students with opportunities to write about a variety of subjects from a variety of disciplines and to demonstrate an awareness of audience and purpose. The overarching objective in this writing course is to enable students to write effectively and confidently in their college courses across the curriculum and in their professional and personal lives. The AP Composition course emphasizes the expository, analytical and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the development of writing facility in any context. In addition, the AP Composition course teaches students that the expository, analytical and argumentative writing they must do in college is based on reading as well as on personal experience and observation. Composition courses, therefore, teach students to read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by professional organizations such as the Modern Language Association (MLA), the University of Chicago Press (The Chicago Manual of Style), the American Psychological Association (APA) and the Council of Biology Editors (CBE). Motivation, interest, and true commitment are a must.

0140 Senior English Seminar I & II **Grade 12** **Full Year** **2.5 Credits/semester**

The Senior Seminar course is designed for discussion and analysis of works that are significant to the study of literature at the senior year and were not part of the curriculum for grades nine through eleven. The readings are from various time periods and genres including works from the late twentieth century. The course will emphasize the themes that are pertinent to our modern society. Personal, expository, and persuasive essays will be required. The emphasis on writing includes development of stylistic maturity, appropriate vocabulary, varied sentence structure, and logical organization.

A reasonable amount of time is also dedicated to process of college and career planning. Teachers assist students in researching colleges and universities appropriate to successful placement, in writing the college essay, and in gathering teacher recommendations.

0143 Senior English Seminar Honors I & II **Grade 12** **Full Year** **2.5 Credits/semester**

The Honors level Senior Seminar curriculum is an in-depth, fast paced course requiring extensive reading, analysis and writing beyond the program for Senior English Seminar. The course/class is specifically designed for students who are above average readers with advanced language skills and are motivated to read and work at a pace that requires considerable effort and ability.

0147 Advanced Placement **Grade 12** **Full Year** **2.5 Credits/semester**
English Literature and Comp

Students are required to take the Advanced Placement English test given by the College Board.

In the Advanced Placement course in English Literature and Composition, students are expected to read and discuss both poetry and prose with facility in the interpretation of specific texts demonstrating an understanding of the diction, structure, and style of each author. The course includes the intensive study of representative works of literary merit from various genres and periods. Writing is an integral part of the Advanced Placement course since the AP examination is heavily weighted on the student's response to literature. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. The emphasis on writing helps students develop stylistic maturity characterized by the accurate use of a wide range of vocabulary; variety of sentence structure; logical organization; a balance of generalization with specific illustrative detail; and an effective use of rhetoric to control tone and to maintain a consistent voice. Students must learn to write effectively under time constraints.

ELECTIVES:

0152 Creative Writing at Night

**Gr 10, 11, 12
Wednesdays**

**Full Yr
7:15 pm - 8:45 pm**

2.5 Credits

7 - 8:45pm on Poetry Soup nights

Creative Writing offers students an opportunity to speak their truth and articulate what really matters to them. To that end, we explore and experiment with various genres of creative expression with a focus on poetry, creative non-fiction, and the short story. The teacher facilitates instruction by providing exercises, activities, and models to stimulate student writing. Students critique the work of their peers, as well as that of professional writers. Students are required to keep a journal, practice revision, and work towards developing an individual voice. In addition, they are encouraged to share their writing with an audience beyond Newburyport High School, by submitting to various contests and publications, as well as speaking at community events, such as the annual Newburyport Favorite Poem Project. Students interested in performing may form a slam team to participate in the Massachusetts Louder Than A Bomb Youth Poetry Slam competition. A portfolio serves as the final assessment.

0153 Poetry Soup

Grade 9 - 12

Full Year

1.0 Credit

Credit is given for full attendance or just come when you can for the sheer joy of it!

Participation occurs beyond the academic day on eleven Wednesday evenings throughout the year. Students join the Creative Writing at Night class to read and/or listen to original poetry and short prose pieces. One guest speaker is featured at each event. The guest speaker reads from his/her published works or work-in-progress, and engages students in discussion about the writing process. Guest speakers include professionals from institutions such as Salem State University and Brandeis University, as well as local celebrated poets, and slam poets from the Boston/Cambridge area. Students also are encouraged to participate in the Favorite Poem Project and Poetry Out Loud.

0154 Record Magazine

Grade 9 - 12

Full Year

1.0 Credit

Participation occurs beyond the academic day. Students plan, edit, and design the Newburyport High School literary magazine. Studying the process of publication, participants examine the steps necessary to bring a magazine to its final form, and have fun along the way! THE RECORD staff solicits writing and artwork from the general student body; then formats, edits, and does the layout for the final product. In addition, THE RECORD staff helps organize the Favorite Poem Project.

HISTORY - SOCIAL STUDIES

REQUIREMENT:

Newburyport High School requires that all students complete 4 years of study in History.

The Massachusetts Board of Regents requires 4 units of History including 1 course in US History for all applicants to the state's 4-year colleges and universities.

We strongly recommend that students seeking admission at more competitive colleges and universities complete a minimum of 4 years of History/Social Sciences.

The History Department has implemented the Massachusetts History and Social Science Curriculum Framework and the Common Core Standards for Literacy in History/Social Studies - statewide guidelines for learning, teaching, and assessment in history and social sciences for the Commonwealth's public schools - as accepted by the Board of Education. All students must follow the sequence of required courses listed below.

SEQUENCE:

- **Grade 9** **World History Part I & World History Part II**
- **Grade 10** **World History Part III & United States History Part I**
- **Grade 11** **United States History Part II & United States History Part III**
- **Grade 12** **Civics and Government & History Elective**

PLACEMENT:

For placement in an Honors or AP course please see Prerequisites for Honors Placement and the Placement process for 8th graders entering 9th grade criteria found on p. 11 of the *Program of Studies*.

Some courses and many electives may have additional prerequisites. If so, the prerequisites are listed by the course description.

United States History – Grades 10 and 11

Students study the chronological development of the U.S. from 1763 to the present. Thematic approaches are used where appropriate to trace the political, economic, and/or cultural development of the U.S. across time periods. The colonial roots of the United States, the growing tension between the colonies and Britain, the emergence of rebellion, the Declaration of Independence, and the establishment of the republic under the Constitution are topics of study early in the course sequence. The trials and growth of the New Republic, the reform movements of the early 19th century, and the growth of sectionalism and the causes of the Civil War finish the first course in the sequence. In Grade 11, students start with Reconstruction and move through the industrialization of the country and expansion at home and abroad. Study then moves to a decade-by-decade chronology starting with the 1920s. An emphasis is placed on the development of analytical reading and argumentative writing skills. Cooperative learning, research projects, and alternative creative learning strategies are utilized. Students must register for two sequential semesters of the course (Part II and Part III) in Grade 11.

0222B United States History, Part I Grade 10 1 Semester 2.5 Credits

This is a one-semester course in which students examine the historical and intellectual origins of the United States during the Revolutionary and Constitutional eras. They learn about the important political and economic factors that contributed to the outbreak of the Revolution as well as the consequences of the Revolution, including the writing and key ideas of the U.S. Constitution. Students also study the basic framework of American democracy and the basic concepts of American government such as popular sovereignty, federalism, separation of powers, and individual rights. Students study America's westward expansion, the establishment of political parties, and economic and social change. Finally students will learn about the growth of sectional conflict, how sectional conflict led to the Civil War, and the consequence of the Civil War. This course culminates with the student's presentation of the Sophomore Exposition.

0223B Honors United States History, Part I Grade 10 1 Semester 2.5 Credits

This is a one-semester course that covers the same chronological period as US History Part I, but in more depth. Student qualifications should be the same as those delineated in World History Honors Part III. This course culminates with the student's presentation of the Sophomore Exposition.

0232A United States History, Part II Grade 11 1 Semester 2.5 Credits

This one semester course will review the history of the United States from the Reconstruction Era, the effects of Reconstruction policies on the lives of African-Americans, and the industrial and business expansion in the last half of the 1800s. The emphasis of this course is on the entry of the United States as a world imperial power in the Spanish American War, The Age of Progressivism, the United States' entry into World War I, and The Roaring Twenties. An emphasis is placed on the development of analytical reading and argumentative writing skills. Cooperative learning, research projects, and alternative creative learning strategies are utilized.

0232B United States History, Part III Grade 11 1 Semester 2.5 Credits

This is a continuation of the chronological study of American History from 1920 to the present. Emphasis is placed on America's rise to a world superpower, as well as its role as a proponent and defender of democratic principles and practices. Students are expected to analyze, interpret, and evaluate significant economic, political, and cultural changes in the United States following WWII. Study finishes with the crises of the 1970s and the contemporary domestic and international challenges the U.S. faces. An emphasis is placed on the development of analytical reading and argumentative writing skills. Cooperative learning, research projects, and alternative creative learning strategies are utilized. Included in the semester is the Junior Argumentative Research Paper (JARP).

0233A Honors United States History, Part II Grade 11 1 Semester 2.5 Credits

This course is designed for the student with a serious interest in United States History. It covers the same chronological period—Reconstruction through the 1920s—as US History Part II, but in more depth. Time is allotted for simulations, research assignments, and detailed projects. The reading of supplementary materials is required in addition to the basic text. Major research projects are assigned regularly. Students should be strong writers and possess superior study skills and personal time management. In addition, students should meet the “Prerequisites for Honors Placement” section in the Program of Studies

0233B Honors United States History, Part III Grade 11 1 Semester 2.5 Credits

This course is designed for students with a serious interest in the political and economic structures of American society. It should prove very beneficial to students intending to major in political science and/or economics in college. While covering the same topics as US History Part III, in addition to constitutional principles, public policy making, and issues of political and social equality, this course treats them considerably more in depth. Major position papers, research projects, and citizen participation assignments are required. In addition, students should meet the “Prerequisites for Honors Placement” section in the Program of Studies. Included in this semester is the Junior Argumentative Research Paper (JARP).

0244A AP United States History, Part I Grades 11 & 12 1 Semester 2.5 Credits
AND

0244B AP United States History, Part II Grades 11 & 12 1 Semester 2.5 Credits

PREREQUISITE: *B+ average or better in 222A/222B & 232A/232B OR,*
 B+ average or better in 223A/223B & 233A/233B AND,
 Recommendation of subject teacher OR,
 Interview with the Course teacher AND,
 Approval of Department Chairperson

This is a two semester course open to students in Grades 11 and 12, and the student must enroll for both semesters. Grades will be determined on a semester basis. The course is designed according to AP standards and is for the superior student of American History. Motivation, interest, and true commitment are a must. This course provides students with the opportunity to take a history course during high school, for which they may receive placement and/or credit from their college. As students are required to take the Advanced Placement Examination in the spring of the year, students must register for both 244A and 244B. During both semesters, students will devote their time to investigating the political, economic, and social history of the United States in depth. Emphasis will be spent on primary source readings, in addition to a thorough review of American History. Considerable time is spent on developing techniques to effectively respond to free-response questions, open-ended questions, integrated essays, and document-based interpretations. Work outside of class and pace far exceeds the honors program. Students entering grade 11 may take 244A and 244B in lieu of 232A/232B or 233A/233B if they meet the prerequisites for enrolling in the course.

Civics & Government / Electives – Grades 11 & 12

Students in Grade 12 are required to enroll in one semester of Civics & Government and one one-semester elective of their preference (students may not necessarily be enrolled in their first choice due to scheduling conflicts or class size restrictions). Civics & Government is offered both semesters and examines the ideological origins and practical applications of government in the United States. The focus is on the federal level; however relevant connections to state and local politics reinforce the curriculum and instructional strategies. All students will complete a major project to reinforce their role as active citizens. Electives in Social Studies seek to expose students to other disciplines in the field that may be of personal relevance or interest. Electives are open to Grade 11 students (enrollment in Grade 11 does not satisfy the Grade 12 requirement). Expectations in electives for classwork, attendance, and self-responsibility are the same as any other course. Electives vary in instructional approaches, but often incorporate research projects, simulations, and alternative learning experiences.

0245 Civics & Government**Grade 12****1 Semester****2.5 Credits****(Offered both semesters)**

This course examines the theories that guide the political and economic behavior of America's democratic society. Emphasis is placed on encouraging students to be contributing participants of the global/international system, as well as being responsible participatory citizens of their own national, state, and local communities. A study of the basic characteristics of civic responsibility will be stressed. Students are expected to actively participate in classroom seminars that analyze and evaluate contemporary political and economic issues.

Students are expected to become actively involved in local political and economic matters.

0246 Honors Civics & Government**Grade 12****1 Semester****2.5 Credits****(Offered both semesters)**

This course is designed for students with a serious interest in the political and economic structures of American society. It should prove very beneficial to students intending to major in political science and/or economics in college. While covering the same topics as Civics & Government, including constitutional principles, public policy making, and political and social equality, this course treats them considerably more in depth. As with Civics & Government, this course will include a study of the basic characteristics of civic responsibility will be stressed. Major position papers, research projects, and citizen participation assignments are required.

0242 International Relations**Grades 11 & 12****1 Semester****2.5 Credits**

The International Relations course provides students with a basic understanding of the role the United States has played in the world since the end of World War II so that they may judge for themselves what America's role should be today and in the future. Current happenings in the world are investigated, analyzed, and evaluated as they occur, in addition to the set curriculum.

This course provides students with a basic understanding of the role the United States plays in the world. Consideration is given to the interaction between the United States and other nations, political, economic, and social factors. A major project and/or research paper is required during the semester.

0234 Psychology**Grades 11 & 12****1 Semester****2.5 Credits**

This is a one-semester course designed to give the student an opportunity to study the science of behavior and mental processes. Students are exposed to theory and research in a non-laboratory setting. Topics to be studied include human growth and development, emotion, motivation, learning, thinking, abnormal behavior, and perception.

0235 Sociology**Grades 11 & 12****1 Semester****2.5 Credits**

This is a one-semester course designed to give the student an examination of the basic concepts, principles, and methods central to the study of sociology. It will help students develop a sociological imagination, which will enable them to view their own lives within a larger and historical context. It will also help students to understand and appreciate the rich diversity present in their world.

0634 Economics Today**Grades 11 & 12****1 Semester****2.5 Credits**

This course presents economic principles and economic models within the context of the sweeping changes of today's economic landscape. The student will be introduced to macro and microeconomics. Topics will include but are not limited to the emphasis of technology's impact on economic growth, employment, and global commerce, the Internet explosion the e-commerce boom, recession, the expansion of global trade and investment, inflation, interest rates, and the role of the entrepreneur. Computer assisted materials, readings, discussions, and case studies to develop problem solving, decision-making, critical thinking, and leadership skills.

Direct involvement with the business community in Newburyport will also be a part of this course. The course will help students integrate theory, issues, and policies into an economic way of thinking.

0236 AP Psychology**Grade 11/12****Full Year****2.5 Credits/semester**

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. **AP students will be expected to take the Advanced Placement exam in May.**

1168A AP U.S. Government & Politics, Part I**Grade 12****1 Semester****2.5 Credits****AND****1168B AP U.S. Government & Politics, Part II****Grade 12****1 Semester****2.5 Credits****PREREQUISITE:***B+ average or better in 232A/232B***OR,***B+ average or better in 233A/233B***OR,***B+ average or better in 244A/244B***AND,***Recommendation of subject teacher***OR,***Interview with the Course teacher***AND,***Approval of Department Chairperson*

The AP program is designed as an introductory college level course, this one happening to focus on United States Government and its politics, institutions, and processes. The class is intended to accomplish two objectives: 1) challenge high school students to satisfactorily complete work at the college level; 2) provide high school students with the resources, content knowledge, and academic skills (writing, critical thinking, and research among others) necessary to perform successfully on the College Board Advanced Placement Exam.

Topics will include: the Constitutional Framework of the United States, Political Beliefs and Behaviors, Political Parties, Interest Groups and Mass Media, The Institution of Government, Public Policy, Civil Rights and Civil Liberties. This course provides students with the opportunity to take a history course during high school, for which they may receive college credit. As students are required to take the Advanced Placement Examination in the spring of the year, students must register for both 1168A and 1168B. Students may take 1168A/1168B in lieu of the Civics & Government and elective requirement for Grade 12 if they meet the prerequisites for enrolling in the course.

0237X World Affairs & Diplomacy (Honors) (Flex Class)**Grades 9-12****1 Semester****2 Credits****(Flex Class)**

World Affairs and Diplomacy is place-based, interdisciplinary, and international education at its best. In class, students learn about diplomacy and the history of the UN and its functions, and activities foster the habits of mind and academic and interpersonal skills required of actual diplomats. Students conduct hands-on research about contemporary, historic, and cultural events and issues; think critically; write and edit formal position papers; learn and practice parliamentary procedure and public speaking skills during practice diplomatic simulations; and engage in both hard and soft diplomacy. As part of the course, students will prepare, attend, and participate in a formal Model UN Conference. At the conference students will put their skills into action, representing a team of delegates for an assigned country. Team members will function as individual delegates to specific UN committees and organs. In committees, students will engage in spirited debate about three assigned topics, ultimately seeking to work with peers from all over the world to find diplomatic solutions to significant global issues.

Important considerations for those hoping to enroll in World Affairs and Diplomacy:

1. This is a flex class that will run after regular school hours. Most classes will begin at 2:30 and run until 3:30, with the exception of 2 classes that will be two-hour sessions.
2. Attending the Model UN conference is a required aspect of this course. It will consist of a 4-day, overnight field trip. While NHS will cover the conference costs, students are responsible for transportation, lodging, and food costs. (Estimated cost based on previous years is \$550, excluding the cost of food. A specific price will be provided to students once class size is known.)
3. The course itself will run from September - Mid-November concluding with the November conference.

WORLD LANGUAGE PROGRAM

REQUIREMENT: Newburyport High School requires that all students complete two sequential years of study in one language. The World Language Department strongly recommends that students study a language for at least three years, if they are considering attending a four-year college or university.

LANGUAGES: German and Spanish

SEQUENCE: The sequence for World Language students in the Newburyport Public Schools is as follows:

German 1, 2, 3, 4 **or** Spanish 1, 2, 3, 4

The purpose of levels one and two is to build proficiency and confidence in the target language to be prepared for the higher-level thinking and language production required in levels three and four.

PLACEMENT: All first-year students may choose either German 1 or Spanish 1, depending on availability. Students who desire to be placed in level 2 or higher must take a placement test and score at a proficient level. Transfer students with previous second-language experience should contact the department chair to discuss their placement and completion of the placement test. Placement tests are scheduled in conjunction with the department chair.

Students are encouraged to make an informed decision about taking either German or Spanish. After the language requirement is fulfilled, students may decide to switch languages.

PROMOTION: Second language learning is a cumulative process and to be successful at the next level of study, students must demonstrate proficiency in their current language course. Students who maintain a 73% or higher course average are eligible to advance to the next level with a teacher recommendation.

HONORS CREDIT: Honors courses are offered in both languages at levels 2,3, and 4. Placement in an honors-level course requires an average of 93% or higher in the current CP course and teacher recommendation.

GERMAN

0318 German 1 **Full Year** **2.5 Credits/semester**

German 1 is a beginning course for students with little or no previous knowledge of German. The course focuses on acclimating students to language learning. It emphasizes positive reinforcement and teaches students to be confident language learners. Students learn to talk about themselves, their families and friends, their hobbies and interests, their favorite foods. They talk and write about what they like to do, and they learn how to arrange appointments and dates.

0328 German 2 **Full Year** **2.5 Credits/semester**

Students expand their ability to perform all the functions acquired in German 1, and they develop the ability to ask and respond to questions; to clarify information; to exchange opinions about people, activities, or events, and discuss class readings. Topics for listening, speaking, reading, and writing build on those acquired in German 1 and add such topics as leisure activities, foods, shopping, cultural and historical figures, geography and travel. This is the second year in the German sequence.

0329 German 2 Honors **Full Year** **2.5 Credits/semester**

This is the honors section of German 2 and is faster paced with a heavier workload and higher expectations placed on students. Students will be expected to perform at a high level in the target language and will have additional authentic readings and cultural projects throughout the year.

0338 German 3 **Full Year** **2.5 Credits/semester**

The German 3 course is designed to prepare students for future travel, study, living abroad and for participation in the GAPP Exchange Program. This includes comparing our educational systems and exploring family living. Other themes of study include: hobbies and interests, holidays, media and communications, health, automobiles and traffic. Students will also discuss and compare current events in contemporary German-speaking countries and the United States. Students will engage in storytelling, express informed opinions, and discuss the connections and cultural differences between the German and American ways of life. This is the third year in the German sequence.

0339 German 3 Honors **Full Year** **2.5 Credits/semester**

This is the honors section of German 3 and is faster paced with a heavier workload and higher expectations placed on students. Students will be expected to perform at a high level in the target language and will have additional authentic readings and cultural projects throughout the year.

0348 German 4 **Full Year** **2.5 Credits/semester**

In German 4 students become more familiar with Germany's position and role in Europe as well as the other German speaking countries. Skills necessary to function well in a German-speaking city are taught using authentic materials in addition to the text. Significant early historical events beginning with the crowning of Charlemagne as emperor in Rome in 800 up through the Middle Ages are covered. Discussion skills, critical thinking, and analytical writing are emphasized.

349 German 4 Honors **Full Year** **2.5 Credits/semester**

This is the honors section of German 4 and is faster paced with a heavier workload and higher expectations placed on students. Students will be expected to perform at a high level in the target language and will have additional authentic readings and cultural projects throughout the year.

SPANISH

0316 Spanish 1 **Full Year** **2.5 Credits/semester**

Spanish 1 is a beginning course for students with little or no previous knowledge of Spanish. Students begin their study of Spanish learning about the Hispanic Culture and its influence here in the U.S.A. while Mexico and Puerto Rico are studied in the second semester. Topics for listening, speaking, reading and writing include but are not limited to: greetings, introductions, the Spanish alphabet, numbers, describing yourself and others, expressing feelings and likes and dislikes.

0326 Spanish 2 **Full Year** **2.5 Credits/semester**

Students learn about the cultures of Spain, Ecuador and the Dominican Republic. Topics for listening, speaking, reading and writing include: clothing and shopping, eating in a restaurant, getting around to places and events in a town and much more. This is the second year in the Spanish sequence.

0327 Spanish 2 Honors **Full Year** **2.5 Credits/semester**

The honors section of this course will be faster paced with a heavier workload and higher expectations placed on students. Students will be expected to perform at a high level in the target language and will have additional authentic readings and cultural projects throughout the year.

0336 Spanish 3 **Full Year** **2.5 Credits/semester**

Students learn about the cultures of Costa Rica, Argentina and Puerto Rico. Topics for listening, speaking, reading and writing include: traveling to a country by plane, going on vacation, daily routines, clothing and shopping. This is the third year in the Spanish sequence.

0337 Spanish 3 Honors **Full Year** **2.5 Credits/semester**

The honors section of this course will be faster paced with a heavier workload and higher expectations placed on students. Students will be expected to perform at a high level in the target language and will have additional authentic readings and cultural projects throughout the year.

0346 Spanish 4 **Full Year** **2.5 Credits/semester**

Students learn about the cultures of Mexico, Spain, The Dominican Republic, Ecuador and Spanish Cultures in the United States. Topics for listening, speaking, reading and writing include: preparing and describing food, ordering meals, family and relationships, the environment and conservation and careers and professions. This is the fourth year in the Spanish sequence.

0347 Spanish 4 Honors **Full Year** **2.5 Credits/semester**

The honors section of this course will be faster paced with a heavier workload and higher expectations placed on students. Students will be expected to perform at a high level in the target language and will have additional authentic readings and cultural projects throughout the year.

MATHEMATICS

REQUIREMENT: Newburyport High School requires all students to complete 3 years of study in mathematics for graduation.

For acceptance into a four-year Massachusetts State College or University, students must take 4 years of high school math including Algebra I, Geometry, and Algebra II (at any level).

Some students opt to take more than four math courses in order to satisfy their individual needs and/or strengths.

SEQUENCE: There are a variety of sequences of courses for students in the study of mathematics at Newburyport High School. The specific sequence taken can vary depending on a student's strengths or weaknesses in mathematics. One example of a traditional college prep math sequence is 9th grade Algebra I, 10th grade Geometry, 11th grade Algebra II, and 12th grade Pre-Calculus.

PLACEMENT: Students entering Newburyport High School will receive recommendations from their eighth grade teachers. Students in 9th through 11th grade will receive recommendations from their current high school math teacher for the following year's math course. Recommendations are based on a variety of factors including but not limited to: grades, mastery of skills, consistency of work, ability to comprehend abstract ideas, self-motivation, and work ethic.

For courses in a college prep level (CP 1 or CP 2) sequence, students must receive a C or higher to go to the next course at that same level. Students may have the opportunity move between various levels depending on their academic performance and their teacher recommendation.

The specific criteria for placement in an Honors or AP course, is outlined in the Program of Studies under "Prerequisites for Honors Placement" and/or "Placement process for 8th graders entering 9th grade". As a general guideline, in order to receive an honors recommendation for the next course in a sequence:

- (1) a student presently in an honors level course should have a solid academic standing and demonstrate a high level of consistent effort and motivation.
- (2) a student who is presently in a CP 1 level course must be highly motivated, have an A average or higher in their present CP 1 course, and receive a teacher recommendation. They must also have a willingness to complete additional work (if needed) to get caught up to the honors curriculum.

Some math courses require additional prerequisites. These prerequisites are listed within the specific course description.

0419 Algebra 1 CP 2 **Grades 9-12** **Full Year** **2.5 Credits/semester**

This course is designed to provide students with a working foundation in Algebra 1. The curriculum was specifically designed for students who have not demonstrated a mastery of the material studied in Grade 8 Math and/or need additional support to be able to work with the abstractions presented in Algebra I. Topics will include: linear equations, systems of linear equations and inequalities, operations on polynomials, factoring, solving quadratic equations, introduction to function notation, families of functions, absolute value equations and inequalities, compound inequalities, measures of central tendency, graphs of data, as well as other topics presented by the Massachusetts Curriculum Frameworks.

This course followed by Geometry CP2 will address all topics needed to prepare students for the 10th grade math MCAS. (This course was previously titled Algebra Concepts and Skills)

0412 Algebra I CP 1 **Grades 9-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: Grade 8 Teacher Recommendation.

This course is designed to provide students with a solid foundation in Algebra. Topics will include: linear equations, systems of linear equations and inequalities, operations on polynomials, factoring, solving quadratic equations, introduction to function notation, families of functions, absolute value equations and inequalities, compound inequalities, measures of central tendency, graphs of data, as well as other topics presented by the Massachusetts Curriculum Frameworks

This course, followed by a Geometry course will address the topics needed to prepare students for the 10th grade math MCAS.

0416 Algebra I Honors **Grades 9-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: A or better in 8th grade math and teacher recommendation OR completion of 8th grade Algebra and teacher recommendation

This course is designed for **highly** motivated students who have excelled in previous math courses and who have demonstrated an ability to meet the demands of a faster paced and more in-depth study of Algebra I topics. Topics will include: linear equations, systems of linear equations and inequalities, operations on polynomials, factoring, solving quadratic equations by a variety of methods, function notation, families of functions, absolute value equations and inequalities, compound inequalities, measures of central tendency, graphs of data, as well as other topics presented by the Massachusetts Curriculum Frameworks. Due to faster pacing, additional topics will be included based on the strengths and needs of the students and will vary from year to year. This course followed by a Geometry course will address the topics for the Grade 10 MCAS.

0421 Geometry CP 2 **Grades 10-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: Successful completion of Algebra 1 CP 2.

This will provide students with a working foundation in the concepts of Geometry. Topics studied will include properties of triangles, quadrilaterals, and other polygons. As well as congruence, similarity, Right Triangles and the Pythagorean Theorem, area of polygons, surface area, volume, and other topics presented by the Massachusetts Curriculum Frameworks. This course in conjunction with an Algebra I course will address the topics for the Grade 10 MCAS. (This course was previously titled Geometry Concepts and Skills)

0422 Geometry CP 1 **Grades 9-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: Teacher or a completed change of Recommendation Form.

This course is designed to provide the student with a solid foundation in the concepts of Geometry. Topics studied will include properties of triangles, quadrilaterals, and other polygons. As well as congruence, similarity, Right Triangles and the Pythagorean Theorem, area of polygons, surface area, volume, and other topics presented by the Massachusetts Curriculum Frameworks. Additionally, students will develop logical reasoning skills and transfer their geometry skills to applications of the concepts. This course in conjunction with an Algebra I course will address the topics for the Grade 10 MCAS.

0432 Algebra II CP 1 **Grades 11-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: C or better in Algebra I (CP 1) and Geometry (CP 1).

This course is designed to provide students with a solid foundation of Algebra II and will allow students to develop key algebraic skills as well as explore a variety of functions. Topics studied will include: radicals, complex numbers, fractional and negative exponents, quadratic equations and functions, rational expressions and functions, polynomial functions, exponential and logarithmic functions, and sequence and series as well as other topics presented by the Massachusetts Curriculum Frameworks.

0417 Algebra II Honors **Grades 9-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: B or better in Algebra I Honors and Geometry Honors.

This course is designed for highly motivated students who are able to meet the demands of a faster paced and more in-depth study of Algebra II. Topics studied will include: radicals, complex numbers, fractional and negative exponents, quadratic equations and functions, rational expressions and functions, polynomial functions, exponential and logarithmic functions, and sequence and series, as well as other topics presented by the Massachusetts Curriculum Frameworks. Due to faster pacing, additional topics will be included that will vary depending on the needs of the students.

1155 Pre-Calculus **Grades 11-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: C or better in Algebra II.

The first semester of this course provides the student a study of the traditional topics of Trigonometry which will include: solving right triangles, solving non-right triangles, radian measure, graphing, proving identities, and solving trigonometric equations. Topics studied during the second semester will include: conic sections, sequences, series, and summation, and matrix algebra. Additional topics may be included from year to year to address the needs of the students.

1059 Pre-Calculus Honors **Grades 11-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: B or better in Geometry Honors and Algebra II Honors.

Students who enroll in this course must be highly motivated and able to meet the demands of a fast paced and in depth upper-level math course. This course will include both the theory and abstract reasoning that lie behind the concepts being studied. This course will include an in-depth study of elementary, polynomial, exponential, logarithmic, and trigonometric functions. The study of Trigonometry will incorporate all of the traditional topics including: solving right triangles, solving non-right triangles, radian measure, graphing, proving identities, and solving trigonometric equations. This course will also include an in-depth study of conic sections, sequences, series, summation, limits, and rational functions.

0454 Intro. to Probability and Statistics **Grades 11-12** **1 Semester** **2.5 Credits**

PREREQUISITE: C or better in Algebra II.

This course provides the student with the basic concepts of probability and statistics. Topics will include: various graphical representations of data, statistical measures (center, variability, position), principles of probability, analysis of distributions, linear regression, sampling, design studies, and the uses and abuses of statistics.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0446 Advanced Placement Calculus AB Grade 12 Full Year 2.5 Credits/semester

PREREQUISITE: B+ or better in Pre-Calculus Hon, meeting with AP teacher.

This course is designed for highly motivated students who have a strong interest in enrolling in an intensive upper-level math course. The course will address the major concepts of differential and integral calculus. This will include both the methods and the applications. Students will need to be able to develop concepts and do problems through multiple representations (algebraically, graphically, numerically, and verbally). Students will be required to take the AP Calculus Exam in May. Students can earn college credit for Calculus if they earn an appropriate score on the AP exam. Students will be required to use a graphing calculator as mandated by the AP syllabus put out by the Educational Testing Service.

0447 Advanced Placement Calculus BC Grade 12 Full Year 2.5 Credits/semester

PREREQUISITE: B+ or better in Pre-Calculus Hon, meeting with AP teacher.

This course is designed for highly motivated students who have a strong interest in enrolling in an intensive upper-level math course. The course will address the major concepts of differential and integral calculus. This will include both the methods and the applications. Students will need to be able to develop concepts and do problems through multiple representations (algebraically, graphically, numerically, and verbally). AP Calculus BC extends all topics from AP Calculus AB. These extensions will include parametric, polar, and vector functions. Additionally, the concepts will be extended using polynomial approximations and series. Students will be required to take the AP Calculus Exam in May. Students can earn college credit for Calculus if they earn an appropriate score on the AP exam. Students will be required to use a graphing calculator as mandated by the AP syllabus put out by the Educational Testing Service.

1081 Advanced Placement Statistics Grade 11-12 Full Year 2.5 Credits/semester

PREREQUISITE: B+ or better in Algebra II, meeting with AP teacher.

This course will allow students with a desire to have a thorough and in-depth knowledge of Statistics to take a full year elective. Students will be required to take the AP Statistics Exam in May. Satisfactory performance on the AP exam will allow students to earn credit for a one-semester college course at many colleges and universities. This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to exploring data, planning a study, anticipating patterns, and statistical inference. Students will use graphing calculators and computers to perform data analysis and simulations.

BUSINESS

0627 Introduction to Business

Grade 10-12

1 Semester

2.5 Credits

Learn about the world of business! Introduction to Business introduces students to the role of business in the lives of individuals, consumers, workers, and how they impact our economy. Coverage includes introduction to business fundamentals, entrepreneurship, basic economics, marketing, social responsibility and ethics, financial operations, stock market game, consumer decision making and career planning. All students should take this course to provide the foundation for a lifelong understanding of economies, businesses and career options.

0624 Accounting

Grade 10-12

1 Semester

2.5 Credits

Students will learn the theory of debit and credits in this double entry method of accounting. They will become familiar with each step in the accounting cycle. The student will also learn accounting principles and procedures that are applied to accounting records kept for businesses that operate in the private enterprise economy. This course is well suited for students who have a variety of career objectives, including careers in related business fields for which mastery of some accounting knowledge and skill is needed and students seeking a foundation on which to continue studying business and accounting at the college level.

0626 Marketing

Grade 10-12

1 Semester

2.5 Credits

Explore the key to how businesses make money. The student will be introduced to the basic role of marketing in our society and the market forces that impact marketing and business operations. Areas of concentration will include target markets, marketing mixes, marketing research, retailing, advertising, and various marketing strategies. Students will work on group projects, develop new product ideas, pitch their ideas in the class, “shark tank” and practice skills essential for any career.

0606 Entrepreneurship

Grade 9-12

1 Semester

2.5 Credits

This course concentrates on starting and growing new businesses. During this semester course, students will investigate the concepts, tools, and practices of entrepreneurship. This course will concentrate on: identifying new venture opportunities (versus ideas), evaluating the viability of a new venture, writing a business plan, understanding which skills are necessary for success, marketing and selecting a type of business ownership, and learning about the financial management strategies of being an entrepreneur. At the end of this course, students will be able to write, and present a business plan that will be ready for investor review, and possess a better understanding of their personal entrepreneurial capacity projects and collaborative group activities. To reinforce classroom instruction and to offer students real world experience, students will have an opportunity to work in the School Store “Clipper Corner”. Students will learn the daily operations of the school store.

SCIENCE

REQUIREMENT:

Newburyport High School requires that all students must complete 3 years of science; 1 year of Biology, 1 year of Chemistry, and 1 year of Physics.

SEQUENCE:

Biology	Grade	9
Chemistry	Grade	10 / 11
Physics	Grade	11 / 12

Science Electives (see prerequisites):

Anatomy & Physiology, Environmental Science, Introduction to Bioethics, Astronomy, Marine Science, Aquaponics, Physics and Philosophy, Biotechnology, Engineering in the 21st Century and Science AP courses (in Biology, Chemistry, Physics, and Environmental Science).

PLACEMENT:

For placement in an Honors course please see Prerequisites for Honors Placement and the Placement process for 8th graders entering 9th grade criteria found on p. 11 of the *Program of Studies*. AP courses and electives may have additional prerequisites, please see Prerequisites under each course description.

1169 CP 2 Biology **Grade 9/10** **Full Year** **2.5 Credits/semester**

CP 2 Biology is a two semester laboratory course. Students will explore and learn the concepts of organization and classification of life, ecological interactions, cell structure, cell function, genetics, evolution, biological molecules, and plant and animal physiology. Reading and writing skills are enhanced through homework, projects, class work and lab reports. The course will provide the student with the opportunity to explore and investigate the principle topics in Biology.

0522A CP 1 Biology **Grade 9/10** **Full Year** **2.5 Credits/semester**

CP 1 Biology is a two-semester laboratory course. Students in this level must be independent readers with good writing skills. The course will provide the student with the opportunity to explore and investigate the biological world from the microscopic to the macroscopic. Topics of this course focuses on characteristics of living things, branches of related biological sciences, and the concepts of biochemistry, cell structure and function, cell reproduction, genetics, plant and animal physiology, evolution, classification, and ecology.

0523A Biology Honors **Grade 9/10** **Full Year** **2.5 Credits/semester**

Honors Biology is a two-semester laboratory course. This course covers the same subject matter as Biology but in more depth and detail. Emphasis is given to developing of critical thinking skills with an accelerated pace. This course is for those students who possess a high level of interest and/or ability in science and plan to enroll in advanced science courses.

0547 AP Biology **Grades 10-12** **Full Year** **2.5 Credits/semester**

PREREQUISITES: A- in CP 1 Biology and Chemistry or a B in Honors Biology and Chemistry are required for Juniors and Seniors along with a recommendation and consultation with teacher. A in Honors Biology and a concurrent Honors Chemistry class is required for Sophomores along with a recommendation and consultation with teacher.

This course is for students seriously considering the study of engineering or advanced science at the college level in this area of Science. This is an advanced placement course that mimics a college primary biology class and follows the College Board Advanced Placement biology curriculum. College-level textbooks are used and a comparable level of achievement is expected. Therefore, the amount of work, depth of work, and homework assignments is considerable. Students electing to take this course must consider the possibility of having to set aside extra time beyond the school day for instructional reinforcement with the instructor. **All students are expected to take the Advanced Placement Exam in May.**

0544 Anatomy & Physiology at night (Flex Class) Grade 10-12 Full Year 2.5 Credits/semester

PREREQUISITE: Must have successfully completed biology.

The course will cover the same topics as the Anatomy course offered during the day. This course meets one evening per week throughout the school year.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0538 Aquaponics Grades 10-12 1 Semester 2.5 Credits

PREREQUISITES: Must have successfully completed biology.

This unique hands on course will include two major science focus areas, horticulture and aquaculture combined into an aquaponics course. Horticulture component will cover the science of cultivating fruits, vegetables, flowers, and ornamental plants. The aquaculture component of the course will cover topics such as natural history, anatomy, environmental requirements, reproduction and culture techniques for common fish species used in aquaponics. Other topics include fish hatchery management for recreational fisheries, conservation aquaculture (restoration of species at risk) and small business in aquaculture, aquaponics and horticulture.

1215 Introduction to Biotechnology Grades 10-12 1 Semester 2.5 Credits

PREREQUISITES: Must have successfully completed CP 1 biology with a B- or better or Honors Biology with a C+ or better.

This course is a combination of lectures and hands-on lab experience that explore current biotechnology practices used in industry today. Topics include a history of biotechnology in the food industry, recombination of DNA technology, transgenic organisms, genetically modified foods, DNA fingerprinting, bioremediation, gene therapy and genetic disease. Biotechnology is a field that uses products of living organisms (DNA sequences or proteins) to make new products for human use. This includes things like insulin production and genetically modifying corn or soy.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0530 Environmental Science Grades 10-12 1 Semester 2.5 Credits

PREREQUISITES: Must have successfully completed biology.

This course is a combination of lectures, discussions based on readings, videos, Internet searches, presentations, and projects that focus on the collective scientific, social, political, and economic views of human being's relationship with the environment. Topics covered include: ecology and ecosystem cycles, human population issues, biodiversity, land use issues, air and water issues, and the political systems often in control. Students will be expected to complete all the readings, participate in class, and utilize their community resources. A final project based on a course topic is a requirement.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0531 Bioethics Grades 11/12 1 Semester 2.5 Credits

Students will be introduced to ethical principles and how they apply to real life issues in the field of science. Never before in the history of our planet have citizens of the U.S. and other developed countries been presented with such a dizzying array of choices concerning medical procedures, biological research, and uses of technology. Being able to critically analyze scientific information and make informed ethical decisions based on established forms of moral and ethical reasoning is vital to a healthy society.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0537 Astronomy at Night (Flex Class) Grades 11/12 1 Semester 2.5 Credits

The students will study the world we live in, NASA's space missions, and the exploration of planetary systems beyond our own. They will explore our solar system, galaxy, and other strange looking solar systems and galaxies out there. They will also explore other exciting phenomena such as the multi-verse, time travel, black holes, wormholes, and the all elusive search for life somewhere out there. This course meets one evening per week and will make all attempts to keep the students informed of current astronomical events, view events through telescopes, listen to guest speakers, and take a variety field trips that would not be possible during the school day. Day and time to be determined.

1083 Marine Science**Grades 10-12 1 Semester 2.5 Credits**

PREREQUISITES: Must have successfully completed Biology.

This comprehensive course in Marine Science is designed as a rigorous examination of the major marine animal and plant phyla including their behavior, physiology, reproductive strategies, and ecology. The course will also explore various marine technologies currently used in the field of marine science. It will connect students to the organisms of the Merrimack River and the Gulf of Maine on a historical, physical and biological level. Students will be exposed to the seven principles of ocean literacy, local and sometimes live organisms. Students will be expected to complete dissections, actively participate in labs, document their lab experiences, and complete quizzes and tests.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0541 Physics and Philosophy**Grade 12 1 Semester 2.5 Credits/semester**

PREREQUISITES: C+ in Honors Physics, B in CP 1 Physics, or an A- in CP 2 Physics

Physics and Philosophy are two inextricably linked fields, as each seeks to explain how the universe operates. Advances in physics in the 20th Century into the 21st Century have radically altered humanity's understanding of how the universe operates, and as a result, our place in it. This course explores modern developments in the field of Physics, and how those developments intersect with philosophical ideas. Units of study will include Modern Theory of the Scientific Method, Relativity, Quantum Physics, Cosmology and the origins of the universe, Nuclear and High Energy Physics. Each unit will involve an understanding of the physics including applications utilizing basic algebra, as well as readings in the field of philosophy. In studying the Scientific Method, students will be expected to design and carry out a project on a topic of their choice.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

1166 Honors Engineering in the 21st Century**Grades 11/12 1 Semester 2.5 Credits**

This is a semester course with an emphasis on engineering, which is the blending of Science and Technology. This course is designed for students with a strong grasp of mathematical and scientific concepts and/or willing to learn difficult mathematical and scientific relationships. Students will discover physical scientific phenomena and utilize multi-step mathematical relationships as they design, build, and test their end product(s) based on specific design criteria. Students will be working in teams throughout the semester.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

POLICY ON DISSECTION AND DISSECTION ALTERNATIVES

In accordance with the 2005 Board of Education's Policy on Dissection and Dissection Alternatives, our School/School District has developed the following policy.

Participation in hands-on science is important to learning science and dissections are a valuable learning experience in which all students are encouraged to participate. When dissection is used in the classroom:

- Teachers will thoroughly explain the learning objectives of the lesson and use written and audio-visual materials as appropriate to maximize the educational benefits of the experience.
- All specimens will be treated with respect.
- All students will be informed, prior to the dissection, that they have the option of discussing individual concerns about dissection with the appropriate teacher.
- Upon completion of the dissection, the remains will be appropriately disposed of as recommended by the local board of public health.

Currently our school offers the following courses that include dissection: *Biology, Honors Biology, Anatomy and Physiology, Marine Science and AP Biology*. The following science courses that allow for dissection alternatives are in *Biology and Honors Biology*. Upon written request of a student's parent or guardian, our school will permit a student who objects to dissection activities to demonstrate competency through an alternative method. With the Anatomy and Physiology, Marine Science and AP Biology courses performing dissections are a requirement and no alternatives will be offered.

The procedure for a student to participate in an alternative activity in place of dissection in Biology or Honors Biology is as follows:

- The student will notify the science teacher of the student's choice to participate in an alternative method in place of participating in the dissection.
- The student will submit a written request from his or her parent/legal guardian to the science teacher or to the school principal.
- The student will be provided an alternative method to be determined by the teacher who will specify in writing what is expected of the student. Alternative methods should allow students to gain the same content knowledge as the dissection activity and should allow for a comparable investment of time and effort by the student.
- The student will accept responsibility for completing the alternative method within the assigned time and is expected to learn the same content knowledge as if the student were performing the dissection activity.
- The student will be subject to the same course standards and examinations as other students in the course.

This policy will be included in the student handbook and will also be provided to all teachers of science courses that involve dissection at the beginning of each school year.

Newburyport High School Wellness Program

The mission of our wellness program is to build resilience in the areas of physical, emotional, social and mental well-being through experiences that will enable students to thrive, persevere, and maintain positive attitudes for a healthy lifestyle.

Requirements:

Newburyport High School requires that all students take Wellness for a minimum of one semester each year. Juniors and Seniors must choose one semester of a wellness elective. These electives will provide students with the opportunity to select their wellness experience.

Senior athletes may use their participation in a Newburyport High School MIAA sanctioned sport as their senior elective.

9th grade Wellness	2.5 Credits	11th grade Wellness electives	2.5 Credits
10th grade Wellness	2.5 Credits	12th grade Wellness electives	2.5 Credits

Wellness for 9th and 10th grade students:

Wellness Education at the high school is a two-fold program: 9th and 10th grade students have Physical Education and Health that meets the Massachusetts and National Physical Education and Health Standards. *The semester will be split into two halves: Health for a quarter and Physical Education/Fitness for a quarter.* The courses provide students with a physically, socially and emotionally safe environment that challenges all learners, promotes the value of a healthy and active lifestyle while providing all students with opportunities for a meaningful and productive learning environment. Students are given the responsibility for their learning and that of their peers through experiences that build on analysis and reflection.

0013 Grade 9-Wellness **1 Semester** **2.5 Credits**

Theme Respect: Along with cooperative skills and team-related activities freshmen will participate in Project Adventure initiatives which focuses on an atmosphere of mutual support in which cooperation; encouragement and interpersonal concerns are explored. Many activities will focus upon leadership, goal setting, problem solving, and decision-making skills. Students will be able to demonstrate an understanding of respect for differences. Freshmen will also learn about contemporary health issues such as bullying, disease prevention, drug/alcohol awareness, tobacco/vaping, stress management, self-esteem and coping skills. Additionally, freshman will participate in two evidence based screen protocols. The Signs of Suicide (SOS) and the Screening, Brief Intervention, and Referral for Treatment (SBIRT) tools will be implemented with all 9th graders during their Wellness class.

0023 Grade 10-Wellness **1 Semester** **2.5 Credits**

Theme Trust: Students at this grade level will participate in cooperative skills and team-related activities. A strong emphasis will be given to health-related fitness concepts, skill-related fitness concepts and the utilization of life skills is an intricate part of the curriculum which students will utilize throughout their lives. Through guided discovery and exploration of the curriculum students develop an understanding of emotional and mental health, stress management, internet safety, resiliency skills, drug/alcohol awareness, human growth & development, morals/values and CPR certification.

Leisure Lifelong Activities: **Grades 11-12 Only** **1 Semester** **2.5 Credits**

In this class students will be participating in individual and small group activities. These activities will be geared towards lifelong healthy activities. Students will be required to track their heart rate and steps during activity. Some activities will include: aerobic walking, tennis, badminton, golf, bocce, Frisbee games, and other small games. Project: research local fitness facilities beyond high school.

Advanced Strength Training and Conditioning **Grades 11-12 Only** **1 Semester** **2.5Credits**

PREREQUISITE: Have taken and received a B+ or better in Fitness for Life

This course is designed to enhance the students' current level of knowledge and expertise to an advanced level in the area of strength training and conditioning. The course will focus on the assessment and implementation of training programs with strong emphasis on the areas of resistance training, flexibility, reaction time, speed, and agility. Students will learn the basic biomechanics of movement during training; apply knowledge of muscle structure and physiology to exercise selection and program design and determine appropriate testing techniques in the evaluation of athletes and their performance; evaluate physical training strategies.

Other Wellness Electives (These do not fill the 11th and 12th grade requirement for Wellness)

1163 On Board **Grades 10-12** **1 Semester** **2.5 Credits**

This course is to introduce students to boating, woodworking, and the safety entailed within them. The course will integrate physical education, engineering, basic boating skills, woodworking, community history of shipbuilding, and working together as a team. The intent of this course is to lay out the basics of boating and woodworking in order to make their water activities and shop experience safe and enjoyable. The course will explore Newburyport's history of shipbuilding. Students will learn basic boating terminology and safety. Students will learn proper shop safety and basic woodworking skills using both power and hand tools. Students will work together in teams designing and building their own boats. Students will also gain community involvement working with Lowell's Boat Shop in Amesbury and with the Maritime Museum in Newburyport.

0700 Nutrition **Grades 9-12** **1 Semester** **2.5 Credits**

This course is offered both first and second semester. Nutrition and Wellness enables students to realize the components and lifelong benefits of sound nutrition and wellness. These practices empower them to apply these principles in their everyday lives. Topics include: impact of daily nutrition and wellness practices, lifelong health and wellness; physical, social, and psychological aspects of healthy nutrition and wellness choices; selection and preparation of nutritious meals and snacks. Units of study include: knife skills, culinary techniques, safety, sanitation, recycling processes and issues associated with nutrition and wellness; impacts of science and technology on nutrition and wellness issues. Laboratory experiences which emphasize both nutrition and wellness practices are required components of this course. This course is designed to improve and increase the knowledge of good nutrition and food choices. This course is offered both first and second semester.

0700 Nutrition 2 **Grades 11-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Have taken and passed Nutrition 1 or be in your Jr. or Sr. year

Nutrition 2 rigorously delves deeper into the food concepts and practices taught in Nutrition 1. Students will strive to enhance their practical culinary skills, appreciate the benefits of freshly made foods and understand the science behind why "foods do what they do." Nutrition 2 students will be expected to hold the highest standards of safety and sanitation while studying the mandated national Servsafe certification for food establishments. Students will participate in extensive laboratory experiences enhancing and expanding methods previously taught, all a while developing good nutrition and wellness habits.

VISUAL AND PERFORMING ARTS

The arts are an opportunity to express oneself through images, characters, music, and stories. Art classes at Newburyport High School offer something for students of all experience levels. We encourage participants to think creatively, make responsible choices, form artistic judgments, and investigate the social and historical context in which they live. Though most classes culminate in performance or exhibition, the focus of all classes shall be on the process. Students will be expected to participate and will be evaluated on their individual growth. The ultimate goal of our department is to promote appreciation of the arts, a deeper self-awareness for students, and a more sensitive understanding of the world.

REQUIREMENT: MassCore recommends that all high school students enroll in at least one year of study in a Visual or Performing arts discipline. Newburyport High School students must fulfill two semesters of study in a Visual or Performing Art.

SEQUENCE:

- **Music** – Student may go directly to Band, Choir, Technology, or Musical Theatre.
- **Visual Arts** – Art I is required before taking any other studio art course. Advanced students may strive for Honors Portfolio or AP Studio Art.
- **Theatre** – Theatre I, followed by Theatre II or Stage Tech. Honors Theatre Ensemble for advanced students.
- **Video** – Basic Video, followed by Movie Making or Broadcast Journalism.

PLACEMENT:

Some electives may have prerequisites. If so, the prerequisites are listed by the course description. Any student wishing to skip a prerequisite must arrange for an audition/portfolio review with the instructor and department chair.

MUSIC

0819 Band **Grades 9-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: At least a grade 8 (Book 2) proficiency level. See band director.

Band at NHS is a full year course that covers marching band, pep band and concert band. This is band! You've already lived it at another level, now take it higher in NHS band! Play advanced music, become a section leader or drum major, start a small ensemble to perform outside of school. Take your playing to levels you've never thought possible! Attend performances of college bands, the Boston Symphony Orchestra, and more. Opportunities exist to play most Friday nights, for assemblies, and for city functions. Get more out of your instrument. Join NHS band!

0826 Honors Band **Grades 9-12** **Full Year** **2.5 Credits/semester**

PREREQUISITE: Permission of the teacher

Students in honors band will complete all regular band requirements, plus audition for an honors ensemble outside of school, and write a reflection on the experience. Seek to become a band leader, either as drum major or section leader. Become a mentor to a younger student, encourage their musical growth, and reflect on the experience. Seek extra performances as a soloist or create an ensemble to perform. Ideas for performance include the Holiday House tour, artists reception at an art opening, or suggestions from the student. Attend at least one concert performance outside of the school system, and write a written reflection. Seek roles in the greater Newburyport musical community, such as the Chamber Music Festival.

0813 Music Technology **Grades 9-12** **1 Semester** **2.5 Credits**

In music tech we learn how to make music using our current technology. We learn about the history of technology in music, and how to use technology like our PA system to enhance a live performance! Learn about music theory, basic piano skills, and how to make a computer understand what a piano keyboard is saying. Use loops to create new songs. Find your own use for our technology to make music in your own way!

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0820 Guitar Class **Grades 9-12** **1 Semester** **2.5 Credit**

PREREQUISITE: Must own a guitar.

Want to learn how to play guitar? Already have some skills but you want to improve? Want to learn how to read music for guitar? Sign up for guitar class and start playing songs on the first day! Learn the notes, play melodies, play chords to your favorite songs, and more! Advanced students may write songs, play scales and solos or sing along with their own guitar playing.

0827 Strings Ensemble **Grades 9-12** **Full Year** **2.5 Credit/semester**

PREREQUISITE: Must own or rent an instrument.

The NHS strings ensemble is your new home for violins, violas, cellos, and bass. Electric bass is welcome, too! In this class you will explore music of many varieties in a strings-only environment. From the masterworks of classical music to jazz, pop, and rock music, we'll cover as much material as we can, while learning how to balance and blend and improve our skills so we can play more challenging music. A long-term goal of this course is to reach a skill level that allows us to combine with some wind and percussion instruments to create a symphony orchestra.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0821 Jazz/Rock Combo Class **Grades 9-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Students must already know how to play a musical instrument. Reading music notation would help.

Jazz/Rock Combo is designed for students who play electric or electronic instruments, or drums, who own those instruments, and would like to improve skills for playing together as a band. Some music reading will may be involved, along with the instruction to read music of different written styles. The emphasis will be on "jamming" together, with guided instruction and some individual lessons. Performances will be frequent, and could include school events, public spaces or public events. **Course may be repeated for credit**

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0824 Jazz Band (Flex Class) **Grades 9-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Students must already play a band instrument, drums, guitar, bass, or piano.

If you already play a band or rhythm section instrument you should be in jazz band! Because everyone already plays we jump right into jamming and even soloing! Take your reading to a new level, as we play multiple songs together. Improve your soloing, or learn improvisation! This class is what the students make of it. If 6 people sign up, we're a combo. If 15 or more sign up we're a big band. Either way, you'll play early and often, listen to a lot of jazz in different styles, and maybe even compose or arrange music. This class meets one evening per week, day and time to be determined. **Course may be repeated for credit.**

0815 Choir (Flex Class) **Grades 9-12** **1 Semester** **2.5 Credits**

Choir offers a variety of learning experiences for choral musicians of all levels. We will work on music of various genres and time periods, including modern popular music. Some ensemble work will be included as well as solo opportunities. Open to singers of all abilities. Course meets approximately three times per week. Qualified students may also participate in Varsity Choir, District music festivals, and All-State. **Course may be repeated for credit.**

0847 Musical Theatre**Grades 9-12****1 Semester****2.5 Credits**

A study of dance, acting, and singing, this course is designed for the student who wants to explore musical theatre. This class is performance-based; students are graded on their skills and ultimately expected to demonstrate improvement. Each discipline will be approached individually, as well as in relation to each other. Solos, duets, and group numbers from a variety of musicals will be learned, and students will perform several scenes from musicals. Some class time will be devoted to vocal technique, group dance numbers, as well as the opportunity for students to create their own choreography. Students will read and watch clips from musicals, focusing on the various contribution of many composer/lyricists of the Broadway stage. This course will include history of musical theatre in America. Experience in each discipline is not necessary, as long as there's a willingness to try!

PHOTOGRAPHY**0710 Photography I****Grades 9 -12****1 Semester****2.5 Credits**

*While not required for this course, it is highly recommended that students have access to a 35mm SLR camera.
Lab Fee: \$30.00*

In this course students will be introduced to the world of photography through hands on assignments, classroom discussions, and research. Students will build their own working camera, acquire the basic skills to use a 35mm camera, develop film, and make photographic prints in the darkroom. In addition students will also have the opportunity to explore the fundamentals of digital photography and PhotoShop. Projects and research will focus on the early history of photography from the Renaissance through the 19th century. Students will create a class contract and work in a community based learning environment.

0720 Photography II**Grades 10-12****1 Semester****2.5 Credits**

*PREREQUISITE: Successful Completion of Photo I with a grade of C+ or higher
Lab Fee: \$30.00*

The purpose of the course is to develop an expressive visual language utilizing the medium of photography. Problems and assignments are structured to develop a personal vision and to build upon a working knowledge of photographic materials and methods developed in Photography I. Students will advance their skills with film and digital processes as well as deepen their understanding and use of composition in order to capture more compelling images. Students are encouraged to incorporate their technical skills with creative visual self-expression. Emphasis is placed on the use of lighting, exposure, and composition to create technically correct and aesthetically interesting images. Students will learn about a variety of photographic styles such as photojournalism, portraiture, still-life and landscape photography. Students will continue to learn about the history of the medium by examining photography of the 20th Century. Grading is based on the completion of a portfolio of photographs and written critiques that might be assigned. Generally, one text is assigned as outside reading. Successful completion of this course will prepare students for the advance level course of Honors Photography.

1105 Honors Photography (Honors)**Grades 11-12****1 Semester****2.5 Credits**

Prerequisite: Completion of Photo I and II with a grade of B or higher. Student will need a subject teacher recommendation. Summer assignments are required and will be due on the first class session in September.
Lab Fee: \$30.00

The Honors Photography course is limited to seniors and juniors who have a serious interest in photography and want an advance experience in the medium. There are three reasons a qualified student may sign up for this course: 1. To prepare a photographic portfolio for college; 2. To prepare a portfolio for taking AP Studio Art in the following year; or 3. To have a more advanced professional experience as a photographer

This course will develop a body of work, (minimum 12 images) that represents the student's most recent and best art works. Students will be challenged to use more sophisticated thinking and problem solving skills in order to develop original and creative concepts for their photography portfolios. In addition to photography assignments, which is the main focus of the course, requirements will also include attendance of National Portfolio Day held on the second Sunday of November, a college portfolio review, a completed sketchbook, reading and writing assignments. *While not a requirement, it is highly recommended that students consider taking a summer studies institute from a college program during the summer before junior and / or senior year.*

STUDIO ARTS**0881 Art I****Grades 9-12****1 Semester****2.5 Credits**

This is an introductory course, which will explore the elements and principles of art. While studying these concepts students will experiment with a wide range of media including: pencil, ink, paint, collage and 3-D materials. Students will be challenged to use independent thinking and problem solving to develop original and creative concepts for their artwork. Art history will be used to help reinforce the basic elements of art while also serving as inspiration for developing their own skills and style. Homework will be assigned approximately every other week and will reinforce concepts being learned in the classroom.

1185 Drawing**Grades 10-12****1 Semester****2.5 Credits**

PREREQUISITE: Art I

Drawing has always been considered the backbone of art. When done successfully it is a direct line to creative expression, observation and visual communication. In this course, basic principles of the technology of drawing will be stressed through the representation of life drawing (still life, abstraction and figure). The student will be exposed to the practical use and application of a variety of drawing materials and surfaces. We will be learning to "See", and react technically and creatively to depict whatever is intended, while developing the skills explored further in the Honors Portfolio course.

1193 Ceramics I**Grades 9-12****1 Semester****2.5 Credits**

Lab Fee: \$30

This course introduces students to the physics of clay and basic capability in the three hand-building techniques (pinch pots, coil, slab) that will see them create both functional and sculptural works. A variety of surface decorating techniques will be used from glazing to mixed media.

1220 Ceramics II**Grades 10-12****1 Semester****2.5 Credits**

PREREQUISITE: CERAMICS I

Lab Fee: \$30

Students will solve challenging problems in ceramics using a variety of methods including higher level hand-building, sculpture, and the pottery wheel. Surface decoration will be explored in greater detail and will include slip-painting, sgraffito, and more advanced glazing techniques.

0884 Painting**Grades 10-12 1 Semester 2.5 Credits***PREREQUISITE: Art I*

This course will build on the prior knowledge students have in regards to the elements and principles of art. Students taking this course will explore techniques in water color, acrylics, and mixed media through the creation of both abstract and realistic works of art. Works produced in this course will lead to the creation of portfolio quality works. Students will be challenged to use more sophisticated thinking and problem solving to develop original and creative concepts for their artwork. Art history and criticism will be used to help reinforce the basic elements of art while also serving as inspiration for developing their own skills and style. Homework will be assigned approximately every week and will reinforce concepts being learned in the classroom. In addition, independent study assignments will be student-directed to be developed and evaluated throughout the semester.

0806 Honors Art Portfolio (Honors)**Grades 11 -12 1 Semester 2.5 Credits**

PREREQUISITE: Introduction to Art, and at least two additional visual art courses from the program of studies, and a subject teacher recommendation. Summer assignments are required and will be due on the first class session in September.

The Portfolio course is limited to seniors and juniors who plan to apply to a college with an art based major, or who desire a strong art portfolio prior to exiting high school. This course will develop a body of work, (minimum 12 pieces) that represents the student's most recent and best art works. Students will be challenged to use more sophisticated thinking and problem solving skills in order to develop original and creative concepts for their portfolios. In addition to studio art making which is the main focus of the course, requirements will also include attendance of National Portfolio Day held on the second Sunday of November, a college portfolio review, a completed sketchbook, reading and writing assignments. *While not a requirement, it is highly recommended that students consider taking a summer studies institute from a college program during the summer before junior and / or senior year.*

1171 AP Studio Art**Grades 11-12 Full Year 2.5 Credits/semester**

Portfolio Review by AP board is required at end of course.

PREREQUISITE: Introduction to Art, and at least three additional visual art courses from the program of studies, and a subject teacher recommendation. Summer assignments are required and will be due on the first class session in September.

AP Studio Art is for highly motivated students who are seriously interested in the study of art; the program demands significant commitment. AP Studio Art sets a national standard for performance in the visual arts and students submit portfolios for evaluation at the end of the school year. The portfolios will require that students show a fundamental competence and range of understanding in visual concerns (and methods) based on college level curriculum standards. The workload for this course is extensive focusing mainly on studio art making, but will also include selected readings, keeping an artist journal, and discussions on art and artworks. Students will need to work outside the classroom, as well as in it, and beyond scheduled periods. Students taking this course will choose to pursue one of two AP tracks: AP Studio 2-D Art (any medium including painting, drawing, photography, etc.) or AP Studio Drawing, (drawing only). *While not a requirement, it is highly recommended that students consider taking a summer studies institute from a college program during the summer before junior and / or senior year.*

ART/TECHNOLOGY**1152 Computer Animation****Grades 9 - 12 1 Semester 2.5 Credits**

This course introduces students to the creation of animated imagery through various media. We will begin with simple hand methods such as flip books and proceed through processes such as gif animations for the web done with Photoshop, Flash animation and stop motion animation. A major portion of the course will involve learning to use Adobe's Flash animation software. Along the way we will examine the history of the moving image and the power and influence of animation and computer generated imagery in our contemporary culture.

1186 Photoshop**Grades 10 – 12 1 Semester****2.5 Credits**

Adobe Photoshop is the industry standard for creating digital images. This incredibly deep program is used by graphic designers and web designers, photographers, illustrators, graphic novel artists, and animation. If it has to do with graphics in any way, you can bet you will find Photoshop at the heart of things. Photoshop also includes increasingly powerful tools for creating vector graphics and type. This course is easily accessible to those who have never used Photoshop before and progresses through a solid intermediate skill level that will benefit even those who may already use Photoshop on a regular basis. Students with intermediate or advanced experience in Photoshop may also take this course to build upon the skills they already possess through self-interest projects in order to build a portfolio for the college application process. As with any endeavor that revolves around visual communication of ideas, a sound understanding of the elements and principles of design enables students to not just learn how a computer program works, but how to create expressive and compelling visual representations of ideas and messages through the use of Adobe Photoshop.

Students with intermediate or advanced experience in Photoshop may also take this course to build upon the skills they already possess through self-interest projects in order to build a portfolio for the college application process

0722 Graphic Design**Grades 10 – 12 1 Semester****2.5 Credits**

PREREQUISITE: Introduction to Art and 1 computer course, either PhotoShop or WebDesign

This course will provide students with a career prep experience in using art to design work for mass communication. This course relies on the fundamental knowledge of the Elements and Principles of Design and also an elementary skill level with computers. Students will explore conceptual principles, procedures, and the process of problem solving by design. Students will work on both traditional studio and computer graphics projects from CD covers to poster designs and logos. Whenever possible we will work with real clients. Software applications used will include Illustrator, PhotoShop and InDesign.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

0883 3-Dimensional Art**Grades 10-12 1 Semester****2.5 Credits**

PREREQUISITE: Art I

In this semester class, the students will explore the techniques and materials of rendering in a 3-dimensional space. Inspired by art history and cultures past and present, artists will work within the sculptural capabilities of paper, glass, fiber, metal, natural objects, and ceramic clay while expressing their inner self. Problem solving, care and use of varied materials, as well as methods and techniques for each medium will be an expectation of the class

**Note: This course may or may not run, depending on staffing, student interest and budget.*

1187 Basic Video Production**Grades 9-12 1 Semester****2.5 Credits**

Students in this introductory class will be filming, editing and preparing media for television and short film presentations. Students will learn how to effectively utilize video equipment in and outside of the studio environment. Topics covered will include proper use of video equipment and the editing of video with Adobe Premiere Pro. Class topics will range from commercials and public service messages to the creation of a movie trailer and short film. Students will have an opportunity to sharpen their skills in public speaking and presentation in front of the camera. Teamwork on the set and collaboration on projects will be a major emphasis of the course.

1188 Movie Making **Grades 10-12** **1 Semester** **2.5 Credits**

PREREQUISITE: ANY previous Video, Theatre or Writing Elective at NHS

Students in this class will work together to produce a feature-length film. Each student will select a particular focus: acting, directing, writing or production; however each student will have the opportunity to experience all aspects of the process. Students focusing in production will be expected to be comfortable with film, lighting, sound and editing (Adobe Premiere Pro) equipment/software. In this course we will start at the writers table and see a feature length film from its initial stages straight through to the “world premiere.” Students in this class will be expected to out of school time in order to complete the film. Students in this class will frequently be expected to work on the film outside of class, as well as projects for the school and greater community. These projects will serve as portfolio building, and will be a part of the students’ overall grade in the course.

1164 Broadcast Journalism **Grades 10-12** **1 Sem/Full Year** **2.5 Credits/semester**

PREREQUISITE: Basic Video or permission of instructor

Students in this class will be responsible for the NHS Action News. As a part of this course they will learn the basics of editing using Adobe Premiere Pro, design their own news studio, and alternate roles on a fully functioning news team. Students will have the opportunity to work either on or off camera and to provide up to the minute, informative, entertaining and thought-provoking news for the NHS community. Students will learn investigative journalism, how to properly film interviews, commercials and obtain exciting live footage.

1153 Intermediate Video & Television Prod **Grades 10-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Basic Video

Building on the skills acquired in the introductory class, students will continue to explore the world of video and television production. Class curriculum will include future expiration of technical aspects and set up of filming including sound engineering, lighting and scripting. As a cumulative project students will produce their own Documentary Film Short. It is assumed that all students will possess a basic familiarity with editing using Adobe Premiere Pro. Students in this class will also work on projects out of class for the school and surrounding community.

THEATRE

0843 Theatre I **Grades 9-12** **1 Semester** **2.5 Credits**

This course is dedicated to enriching the student’s knowledge of theatre and developing a greater appreciation of the arts. Students will explore theatre from three viewpoints: acting, directing, and production. Acting techniques are presented, as well as a good assortment of theatre games and team-building exercises. Students will learn basic vocabulary, safety rules and jobs of the theatre. This course will also include an overview of technical theatre and theatre history. Students will read at least one play and are expected to see a live performance as well. This course does not require previous experience and is open to all students.

0844 Theatre II **Grades 9-12** **1 Semester** **2.5 Credits**

Prerequisite: Theatre I or permission of instructor.

This course emphasizes basic acting skills through drama exercises including improvisation, movement, concentration, and voice production. Students expand their skills with a focus on character development. Actors will learn numerous scenes to provide the opportunity to explore a variety of styles and characters. Students will be expected to participate to the best of their abilities at all times and will be evaluated on their individual growth; however, this class assumes that students have some experience in theatre, and the grading reflects an increased emphasis on performance. They will perform scenes for an audience at the end of semester. This class will promote critical thinking skills through discussion, performance, and writing assignments. Course may be repeated for credit.

1148 Dance (Flex Class)**Grades 9-12****Full Year****1.25 Credits/semester**

Students will learn and employ the techniques and style of the major dance forms while learning combinations in the following genres: Swing, Latin, Tap and Hip Hop. Students will explore the elements of dance and learn to develop their "critical eye" and appreciation for dance art. Students will be given the opportunity to choreograph their own pieces for class and for performance. Dance I fosters self-expression, creativity, dance technique, and performance skill. No dance experience is necessary, but trained dancers will be challenged and are encouraged to take the course. We will order shoes for those that need them the first week of class.

In order to participate in a flex Theatre course, students must sign a contract of Student Expectations.

0849 Theatre Ensemble (Honors)**Grades 11-12****Full Year****2.5 Credits/semester**

Prerequisite: Permission of Instructor. It is generally required that students take two theatre classes, as well as participating in at least two previous NHS production.

Ensemble is designed for the highly motivated theatre student and moves at an accelerated pace. Students are given assignments in all areas of theatre (acting, directing, technical theatre, writing), as it is critical that they understand and appreciate how the elements must work together. Students are encouraged to think creatively and collaboratively. The ultimate focus is on specific skill-building and truly working as an ensemble. The course requires a significant time commitment outside of class, students prepare a full length production. Students will explore career options and preparation for college programs, including audition skills and portfolio development. Students in this class will keep a journal to examine their own lives and relationships, to explore personal topics, and to reflect on their classroom experience. As an honors course, it is expected that students demonstrate critical thinking and take a leadership role in the theatre activities of NHS. More extensive reading and writing is required than in other theatre courses. Students read at least one play per month, research current events in professional theatre, and study techniques of major acting and directing methods. Observations appropriate to an advanced level of experience are required for a successful grade. Additional topics will be included that vary from year to year depending on the needs of the students.

1123 Stage Technology**Grades 9-12****1 Sem/Full Year****2.5 Credits/semester**

This class is a hands-on exploration of the elements of Technical Theatre. Students in this class will learn the fundamentals of designing for the stage. Students will create a 3-D model of their own set design and be responsible for the construction of the sets for the NHS Theatre Department. Students will also learn how to hang and focus lighting instruments for the stage and run the lighting board. This class will also expose students to the other elements of design that are crucial to a stage performance including, costuming, make-up, sound and special EFX. Students will learn safe and proper usage of tools and stage rigging.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

1121 Elements of Acting & Design (Flex Class)**Grades 9-12****1 Semester****2.5 Credits**

During this class we will explore movement, improvisation, voice, character, and technical elements through the production process. Students are expected to be **self-motivated** and to participate to the best of their ability at all times. While students are evaluated on individual progress, the focus is on specific skill-building and truly working as an ensemble. Students are each allowed to focus on their area of interest; however, it is critical that they also understand and appreciate how the elements must work together.

Classes meet outside the traditional school day. This includes rehearsals, production meetings, and technical preparations. We begin our semester with a workshop on general auditioning techniques, followed by practical auditions for the current production. Students will participate in analyzing the script to understand the world of the play. Actors will learn blocking to create patterns on stage and begin making active choices. Designers and technicians will implement choices and work together as a team to create a unified vision. This class culminates in a production, and all students are expected to work toward this goal.

In order to participate in a flex Theatre course, students must sign a contract of Student Expectations.

1196 Elements of Musical Theatre (Flex Class) Grades 9-12 Full Year 2.5 Credits

During this class we will explore music, dance, voice, character, and technical elements through the production process. Students are expected to be **self-motivated** and to participate to the best of their ability at all times. While students are evaluated on individual progress, the focus is on specific skill-building and truly working as an ensemble. Students are each allowed to focus on their area of interest; however, it is critical that they also understand and appreciate how the elements must work together.

Classes meet outside the traditional school day. This includes rehearsals, production meetings, and technical preparations. We begin our semester with a workshop on general auditioning techniques, followed by practical auditions for the current production. Students will participate in analyzing the script to understand the world of the play. Actors will learn blocking to create patterns on stage and begin making active choices. Designers and technicians will implement choices and work together as a team to create a unified vision. This class culminates in a production, and all students are expected to work toward this goal.

In order to participate in a flex Theatre course, students must sign a contract of Student Expectations.

1195 Improvisation (Flex Class) Grades 9-12 Full Year 1.25 Credits/semester

Think fast! Not just for actors and comedians, improvisational theatre offers a supportive environment to explore crazy situations and characters. Ultimately it's about storytelling, teamwork, and effective communication skills that can be applied to many areas. Come check it out and laugh with us! Course meets one weekday evening throughout the school year.

In order to participate in a flex Theatre course, students must sign a contract of Student Expectations.

TECHNOLOGY & ENGINEERING

1041 Basic Web Design **Grades 9-12** **1 Semester** **2.5 Credits**

In this introductory class, students will use HTML and CSS as a tool in the design and authoring of web pages. Students will begin by exploring the basic principles and techniques used in web page construction as well as the basic principles of image editing using Adobe Fireworks. Class projects will include the construction of a series of web pages of increasing complexity.

1107 Intermediate Web Design **Grades 10-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Basic Web Design or Programming for Game Design

In this intermediate class, class focus will shift from handwritten HTML and CSS to more advanced techniques using Adobe Dreamweaver. Focus on UX/UI design considerations, and interactive elements using javascript will compose a significant portion of this course.

1027 Robotics **Grades 9-12** **1 Semester** **2.5 Credits**

This course introduces the principles of robotics and the role in which robots play in our technologically evolving world. Students will study the principles of mechanical engineering, electronics, and computer programming as they design and build robots to performing specific tasks and functions. Robotics is a hands-on engineering course with an emphasis on problem solving, design construction, and teamwork.

1150 Advanced Robotics **Grades 10-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Robotics or Programming for Game Design

Advanced Robotics is an in depth study of the systems and concepts of robotic mechanisms. The course will cover the basics of electronics and mechanics utilized in the design and construction of robotic devices. Use of rapid prototyping machinery (such as the laser cutter, CNC machine and 3D printer) will be a large component of this course as students will be expected to design and manufacture custom parts when necessary.

1043 Computer Aided Design **Grades 9-12** **1 Semester** **2.5 Credits**

Students will explore the basic principles of 3D design and Parametric Solid Modeling using PTC-CREO. CREO is an industry standard design software application which has been generously provided to us through our ongoing partnership with Parametric Technology Corporation of Needham. This is the primary design tool used by Boeing, General Dynamics, Toyota, Lockheed Martin and a host of other companies.

1108 Advanced CAD **Grades 10-12** **1 Semester** **2.5 Credits**

PREREQUISITE: Computer Aided Design

Students will continue to explore the principles of 3D design and Parametric Solid Modeling using PTC-CREO. PTC- CREO is an industry standard design software application which has been generously provided to us through our ongoing partnership with Parametric Technology Corporation of Needham. This is the primary design tool used by Boeing, General Dynamics, Toyota, Lockheed Martin and a host of other companies. Class topics will include the creation of working mechanisms and use of rapid prototyping equipment such as the 3D printer and laser cutter.

1137 Industrial Design **Grades 9-12** **1 Semester** **2.5 Credits**

People rarely think about the objects that fill their lives, yet everything from the pen you write with to the car you drive was designed by someone. This one semester class explores the methods that creative people use to solve real world problems. Utilizing the design process students will create, build and test solutions to various design and engineering challenges. Use of various rapid prototyping (laser cutting, 3D printing) and model making methods constitutes a large portion of this class.

1133 Intermediate Industrial Design Grades 10 -12 1 Semester 2.5 Credits

PREREQUISITE: Industrial Design

Utilizing their existing design and model making skills, students will tackle a variety of design problems. Throughout the semester various rapid prototyping methods will be utilized.

1136 Real World Design & Engineering (Flex Class) Grades 10-12 Full Year 2.5 Credits

Working as a team, students in this class will tackle a large scale real world engineering problem. Past course topics have included designing and building an autonomous sail boat, solving aeronautical engineering challenges, and designing custom devices to simplify a work related task for disabled individuals. This is a full year class that will meet for three hours every Monday night.

1214 Real World Design & Engineering Honors (Flex Class) Grades 11-12 1 Semester 2.5 Credits

Students in this class will take part in the Real World Design Challenge (RWDC), an annual competition that provides high school students with the opportunity to work on real world aeronautical engineering challenges in a team environment. This is a first semester class which will meet for three hours one afternoon a week may be extended into 2nd semester depending on the outcome of the competition

1199 Programming for Game Design Grades 10-12 1 Semester 2.5 Credits

PREREQUISITE: Algebra I-CP 1

Utilizing Processing (an object oriented language similar to java), students will learn the basics of computer programming and use that knowledge to create simple video games.

1166 Honors Engineering in the 21st Century Grades 11/12 1 Semester 2.5 Credits

This is a semester course with an emphasis on engineering, which is the blending of Science and Technology. This course is designed for students with a strong grasp of mathematical and scientific concepts and/or willing to learn difficult mathematical and scientific relationships. Students will discover physical scientific phenomena and utilize multi-step mathematical relationships as they design, build, and test their end product(s) based on specific design criteria. Students will be working in teams throughout the semester.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

Courses marked with **(Flex Class)** will be held outside of the regular school day.

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NORTH SHORE COMMUNITY COLLEGE
Articulation Agreement for Credit/ Advanced Placement

COLLEGE COURSE CREDIT AT NEWBURYPORT HIGH SCHOOL

Students at Newburyport High School can earn free college credit by choosing the following courses: CAD 1043 and Advanced CAD 1108 and earning a B or better in the both the courses and maintaining an overall C or better GPA. These credits earned are tuition free.

The successful completion of the following two courses, CAD 1043 and Advanced CAD 1108, with a B or better and overall GPA of C or above can equal a course at North Shore Community College: for college credit. Additional course requirements include: A Geometry grade of (B or better) and a student must submit portfolio of work, as well as, passing the Computerized Placement Test or SAT scores showing proficiency in math and communications.

Courses approved for Articulation

Secondary School Course	Grade Req'd	NSCC Course	Credit
Awarded CAD 1043	B or Better	Principles of Computer Aided Design- CAD101	4
and Advanced CAD 1108	B or better		

Additional Course Requirements

Geometry (B or better)
 Student must submit portfolio of work with Application for Evaluation of Credit Form
 Communications and mathematics Proficiency as determined by passing the
 Computerized Placement Test(CPT) at North Shore Community College or as determined by SAT
 scores that meet NSCC requirements for proficiency.

INTERNSHIPS/ COMMUNITY SERVICE/WORK EXPERIENCE

0271 Internship Seminar

Grades 11-12 1 Semester 2.5 Credits

The internship program allows students to explore career aspirations, as well as to gain work experience. Internships are set up throughout the community and encompass several career areas. Students will be expected to provide their own transportation to and from the work site, as well as help with finding a internship. Academic credit is contingent upon submission of weekly timesheets, submission of monthly assignments, regular attendance on the job, and two workplace evaluations from their respective supervisor/mentor.

0275 Banking Internship

Grades 11-12 1 Semester 2.5 Credits

The Banking Internship provides a “hands-on” experience in the real world of banking. Students will work in the Institution for Savings Educational School Bank, a fully operational branch located in the high school and supervised by a bank employee. Students will be fully trained to work as actual tellers and customer service representatives while having the opportunity to build actual work history. Competencies and skills to be developed include cash handling experience, computer knowledge, customer service and communications skills. Students must submit a teacher recommendation to be considered for this course and will be required to abide by the bank’s dress, security, and confidentiality codes.

If you are interested in participating in this course, please stop by our school branch to pick up an application and schedule an interview with our Branch Supervisor.

Library Internship

Grades 11-12 1 Semester 2.5 Credits/semester

PREREQUISITE: pre-approval by Librarian

Come join the library staff to assist students as they learn how to use our books and technology. You will have the chance to understand how a library is run, create bulletin boards, work on technology, check out products, organize collections, highlight special features of the library, keep our news up to date, and generally maintain the library in good working order. Please pick up an application from Mrs. Cote in the Library.

Yearbook Internship

Grades 11-12 1 Semester 2.5 Credits/semester

PREREQUISITE: Approval of Yearbook advisor(s)

Join the staff of the En-Aitch-Ess Yearbook by taking a leading role as a student coordinator. As an intern for the yearbook you will work closely with the advisors and the student staff throughout the production process of this nearly 100 year old publication. This internship will involve a multitude of tasks from mailings, community correspondence, managing deadlines, organization of tasks and staff members, and editorial duties. This internship is available both fall and spring semesters.

Photography Internship

Grades 11-12 1 Semester 2.5 Credits/Semester

To be a candidate for the Photography Internship, interested applicants must have completed Photo I and have earned an A- or better. They must have experience both with digital and film processes. Duties of the photo intern include but are not limited to:

Teaching assistant, darkroom assistant, Scanning images and film, maintaining, and organizing work area, creating visual samples, matting artwork. Some skills will be new to the student and will be taught. Students must be self-motivated, and have a focused work ethic.

Students who wish to be Photo Interns must obtain permission of the teacher before selecting this internship.

Ceramics Internship

Grades 11-12 1 Semester 2.5 Credits/Semester

To be a candidate for the Ceramics Internship, students must have completed Ceramics 1 and have earned an A- or better. Duties of the ceramics intern include but are not limited to: Teaching assistant, studio assistant, organizing and cleaning the work area, creating visual samples, loading and unloading the kiln, photographing art work, and helping prepare finished pieces for exhibition. Some skills will be new to the student and will be taught. Students must be self-motivated, and have a focused work ethic.

Students who wish to be Ceramics Interns must obtain permission of the teacher before selecting this internship.

Band Internship **Grades 11-12** **1 Semester** **2.5 Credits/Semester**

To be a candidate for the Band Intern, interested applicants must have completed Band and have earned an A- or better. Responsibilities include managing the band library, organizing audio and video resources, managing the band Twitter and YouTube feeds, acting as community liaison for the band, and could include drum major responsibilities. Intern must be able to attend all band events. Strong leadership skills are a must.

Students who wish to be Band Interns must obtain permission of the teacher before selecting this internship.

Video Internship **Grades 11-12** **1 Semester** **2.5 Credits/Semester**

To be a candidate for the Video Intern, students must have completed two semesters in video production. Responsibilities include acting as teaching assistant, and completing projects for the school and community as requested. Students must be self-motivated and have a focused work ethic.

Students who wish to be Video Interns must obtain permission of the teacher before selecting this internship.

Theatre Internship **Grades 11-12** **1 Semester** **2.5 Credits/Semester**

To be a candidate for the Theatre Intern, students must have completed at least two courses in theatre. Responsibilities may be flexible, depending on student's particular interest. Duties may include organizing and cleaning rehearsal space, selecting and copying scripts, leading warm-ups and improvisations, assisting with technical needs for assemblies and productions, assisting in classes as appropriate. Students must be self-motivated and have a focused work ethic.

Students who wish to be Theatre Interns must obtain permission of the teacher before selecting this internship.

Art 1/Drawing/Painting Internship **Grades 11-12** **1 Semester** **2.5 Credits/Semester**

Art 1/Drawing/Painting Internship students must have completed that course and earned an A- or better.

Responsibilities include but are not limited to:

organizing and cleaning the studio, creating visual samples, taking inventory, learning how to mat artwork and properly display artwork for hanging in a gallery/exhibition, assisting other students with their artwork, assisting the teacher, scanning and uploading artwork, photographing artwork, and always being ready to work and help out in general. Students must be self-motivated, and have a focused work ethic.

Students who wish to be Art Interns must get permission of the teacher before selecting this internship.

0668 Work Experience Program **Grades 11-12** **1 Semester** **2.5 Credits/semester**

The Work Experience Program at the Newburyport High School provides opportunities for students to explore career options and/or to gain work experience.

Juniors and Seniors are eligible to participate in this program.

Students are required to work a minimum of 15 hours per week, Monday through Friday. Students enrolled in this program will be allowed to leave school grounds during their internship block..

Students will be expected to submit weekly timesheets, monthly assignments, and two workplace evaluations from their supervisor to the School to Career Counselor throughout the semester in order to receive a Pass grade. To apply for this program, students need to contact the School to Career Counselor in the Student Support Office.

0240 Community Service **Grades 9-12** **1 Semester** **2.5 Credits**

Community service is offered at the high school to students who are interested in an experience that enables them to become significant and contributing members of their community. Students are placed in participating organization sites where they can earn school credit for their contribution of time. Students who complete seventy-five (75) Community Service hours are eligible to earn 2.5 credits, and up to a maximum of 5.0 credits. Students who complete additional Community Service hours will have the additional hours listed on their transcript. Students must receive approval by the Community Service Coordinator and Student Support Services.

Over 200 Virtual High School courses are available for NHS students to venture into the world of on-line education. Newburyport High School has joined the Concord Consortium of Virtual High School, offering courses that are taught by certified high school teachers across the country, in a wide variety of disciplines and levels. Virtual High School will broaden the opportunities for students at Newburyport High School to include such course offerings as: World Conflict: A United Nations Introduction, Cultural Identity through Literature: Understanding Place, Calculus for Business, Sports and American Society, , Lewis and Clark's Expedition: An Interactive Journey, Criminology, and International Business: An Exploration, and Animal Behavior and Zoology. All of the core courses are NCAA accredited. For a full listing with descriptions of courses offered, visit www.govhs.org and click on VHS Catalog at the left of the screen.

- These courses are open to juniors and seniors.
- Students can not take a VHS course that is currently being offered at NHS.
- Students can not take a VHS course at AP level without permission from the Principal.

Time Management and self-motivation are essential skills for success in a Virtual High School (VHS) course. Please consider this when choosing to enroll in a VHS course. Participation in a VHS course will require students to be involved independent research and projects. Students must plan their own work and be conscientious in completing assigned work. No students can enroll in a VHS class if the course is offered at NHS.

EDUCATIONAL SUPPORT SERVICES

Team-Taught Courses

In most subject areas, team-taught courses are available for students whose learning styles might benefit from more individualized instruction. This team concept allows for a wide range of needs to be met, allowing the student to experience success and develop a positive self-concept.

Language Lab Program

The Language Lab serves students receiving Special Education services whose academic needs can only be addressed in small highly structured settings and who have been identified with a language-based learning disability. The program teaches a variety of language skills in a unique fashion to maximize school success. Language Lab consists of English, Written Expression and Study Skills courses. Placement in the Language Lab Program is determined by an annual review of a student's progress and the Individualized Education Plan (IEP). The Coordinator of Special Education is available to provide further information regarding the Language Lab Program.

The Independence Development Center

The Independence Development Center or IDC prepares adolescents with disabilities for adult life. The program is designed to meet individual needs and to provide optimal growth through functional learning opportunities in the least restrictive environment. The IDC is committed to the growth of individuals as members of their community through inclusive education, community based instruction, and employment and training opportunities. The Coordinator of Special Education is available to provide further information regarding this program.

Learning Laboratory

The Learning Lab is a well-established academic support program that has aided in the improved academic success of Newburyport High School students for over 20 years.

The Learning Lab provides support to help students reach better academic success through a smaller, structured environment to complete classroom assignments, home work and assessments depending on student need.

Consideration for placement in the Learning Lab, a tier 3 intervention, is based on the student's learning profile, past academic experience and/or a recommendation from the RTI team, a teacher or guidance counselor.

The goal is to transition students out of the Learning lab once they become more independent learners.

Learning Center Classrooms

Students receiving Special Education services, whose academic needs can only be addressed in small, highly structured settings, will be placed in appropriate courses, as determined by an annual review of their progress and their Individualized Education Plan (IEP). The Coordinator of Special Education is available to provide further information regarding these courses.

Newburyport Academy

Newburyport Academy provides alternative opportunities for non-traditional learners who are at-risk and assists them in meeting the exit standards of the Newburyport Public Schools. This is a referral-based program, for additional information contact Student Support Services.

Decisions in Living I

Grades 9/10 1 semester

Prerequisite: Teacher/Departmental recommendation

This course is designed to assist students with challenges in the areas of communication, socialization, & organization. Students will have the opportunity to learn and practice necessary social skills for developing and maintaining peer relations as well as learn how to cooperate and work in a group through a variety of activities. Students will be taught how to navigate through their courses and the high school in general. This is a semester course.

**Note: This course may or may not run, depending on staffing, student interest and budget.*

Decisions in Living II

Grades 11/12 1 semester

Prerequisite: Teacher/Departmental recommendation

This course is designed to assist students with determining an appropriate post high school plan. Students will role play interviewing skills and communication skills that arise in the work place. Also, students will be exposed to post-secondary educational options. They will complete college and work applications. Daily living skills for adult life will be explored. They will be exposed to the necessities of independent living such as budgeting and time management. This is a semester course.

**Note: This course may or may not run, depending on staffing, student interest and budget.*