Epping Middle High School

2023-2024
Program of Studies

Grades 9-12

TABLE OF CONTENTS

CONTACT INFORMATION

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Mr. Chris Mazzone- Principal
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Ms. Krista Stalzer- Director of Curriculum, Data, & Assessment

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A complete staff and e-mail directory is available at
www.sau14.org/emhs

EQUAL OPPORTUNITY STATEMENT

The Epping School District, in its actions and those of its employees, does not discriminate on the basis of gender, sexual orientation, marital status, race, color, religion, nationality, ethnic origin, age or disability. This statement is a reflection of the mission of the Epping School District and refers to, but is not limited to, the provisions of the following laws: Title VI & VII of the Civil Rights Act of 1964; the Age Discrimination Act of 1967; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Act of 1973; the Americans with Disabilities Act of 1975; New Hampshire Law Against Discrimination (RSA 354-S) and State Rile: Ed. 303.01(i), (j) and (k). Inquiries regarding discrimination may be directed to William Furbush, Superintendent SAU #14; 213 Main St. Epping NH 3042 or (603) 679-8003.

Reference Policy AC under School Board **Policy** at **www.SAU14.org.**

ACCREDITATION

Epping High School is accredited by the New England Association of Schools and Colleges (NEASC). NEASC is a non-governmental, nationally recognized organization whose affiliates include elementary through collegiate institutions offering post-graduate programs.

Accreditation by NEASC means that an institution meets or exceeds the criteria established by a commission. This is established by a voluntary peer group review process. An accredited school or college is one that has available the necessary resources to achieve its stated purposes through appropriate educational programs; is substantially doing so; and gives evidence that it will continue to do so in the foreseeable future. The integrity of the institution is also addressed through the accreditation process. Accreditation by NEASC is not partial, but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, nor the competence of individual graduates. Rather, it provides reasonable assurances about the quality of opportunities available to students enrolled in the institution

STUDENT SERVICES

A full range of guidance services is available to students in grades 9-12 and their parents/guardians. Students can make an appointment to see their School Counselor or may drop in as needed. Regular individual counseling can be arranged by parents/guardians, professional staff and students themselves. Students may receive advice on selection of courses, have their academic records reviewed, receive career information and acquire information on colleges.

Parents/Guardians are encouraged to contact the School Counseling Office concerning any issues impacting a student's social adjustment or academic progress. In addition, the results of school authorized and aptitude testing can be reviewed individually with students and parents/guardians.

All student records are kept and maintained according to federal and state regulations. Parents/Guardians of students needing to inspect student records should contact the Guidance Office.

The Epping schools will not release copies of records or personal information about any student unless a signed release form from the parent, guardian or 18 year old student is received, except when providing information to recruiters from the Armed Forces. **As required by provision in the Elementary and Secondary Education Act (ESEA), the Guidance Office provides student information upon request to the various branches of the Armed Forces. To "Opt-Out" of these lists, written notification by the parent/guardian or 18 year old student must be provided to the Guidance Office or indicated in the annual online registration.** Form may be accessed under Parents & Community, Student Forms at www.sau14.org.

Ms. Catherine Zylinski- Director of Student Services

GRADUATION REQUIREMENTS

Beginning with the Class of 2026, new graduation requirements and diploma options will be instituted. Please refer to the correct section below, based on your year of graduation, to review the graduation requirements and diploma options.

Classes of 2024 & 2025

Students in the classes of 2024-2025 have the following diploma options available:

1. State Standard Diploma – This diploma is awarded in special circumstances and is based on the State of New Hampshire Requirements for a High School Diploma. *Principal and Superintendent approval are required to be considered for this diploma.*
2. District Standard Diploma – This is the standard Epping Middle High School Diploma that meets the established minimum graduation requirements for the district.
3. Honors Diploma – Students must meet the credit requirements listed below with a cumulative GPA of 3.2 or better, 2 or more credits in Honors or AP courses in 11th and 12th grade, and no competency/credit recovery required. Please note that "honors-option" courses do *not* count toward this Honors course requirement.

1. State Standard Diploma (Classes of 2024-2025)

SUBJECT	CREDITS
English	4
Math (including Algebra I)	3
Science (must include Biology & Physical Science)	2
Social Studies (including World/US/NH History, Civics & Economics)	2.5
Physical Education	1
Health	½
Fine Arts (Art/Drama/Music)	½
Computers	½
Electives	6
TOTAL	**20**

2. District Standard Diploma (Classes of 2024-2025)

SUBJECT	CREDITS
English	4
Math (including Algebra I)	3
Science (must include Biology & Physical Science)	3
Social Studies (must include US Hist, World Cult, Econ, Civics)	3
Physical Education	1
Health	½
Fine Arts (Art/Drama/Music)	½
Computers	½
Electives	7
TOTAL	**22.5**

3. HONORS DIPLOMA (Classes of 2024-2025)

SUBJECT	CREDITS
English (college-prep level)	4
Math (college-prep level, must include PreCalculus)	4
Science (Biology, Physical Science, & 2 years of college prep lab science)	4
Social Studies (including World Cult, Econ, Civics and US History)	3.5
World Languages (must be in same language)	3
Physical Education	1
Health Education	½
Fine Arts (Art/Music/Drama)	½
Computer Education	½
Electives	5.5
TOTAL	**26.5**

Class of 2026 & Beyond

Students will have the opportunity to select from one of the diploma options below and make adjustments as high school progresses based on their progress and goals.

1. **Epping Middle High School Diploma**: This diploma is the standard EMHS diploma based on the district's minimum requirements for graduation. Students earning this diploma may be prepared to enter 2 or 4-year colleges, the workforce, trade school, military enlistment, and other post-secondary options.
2. **Epping Middle High School Scholars Diploma**: Students earning this diploma may be more competitive candidates for 4-year college admissions in addition to having other post-secondary options available such as trade school and military enlistment. Students earning the Scholars Diploma may be qualified to earn the New Hampshire Scholars distinction if core classes are taken at the college-prep level or higher.
3. **Epping Middle High School Diploma of Distinction:** Students selecting the Diploma of Distinction will partake in a rigorous course of study that may require students to take a full schedule of classes throughout their four years. Students earning this diploma may be more competitive candidates for 4-year college admissions in addition to having other post-secondary options available such as trade school and military enlistment. Students will be qualified to earn the New Hampshire Scholars distinction.
4. **Epping Middle High School State Diploma:** This diploma is for students who have faced extenuating circumstances who are not able to access the standard EMHS diploma requirements. It is based on the State of New Hampshire requirements for a high school diploma. Students graduating with this diploma may be eligible for 2 and 4-year college admissions as well as having other post-secondary options available.

1. Epping Middle High School Diploma

Subject	*Credits*	*Subject*	*Credits*
English	4	Arts	.5
Math *Must include Algebra*	3	Financial Literacy	.5
Science *Must include Biology and Physical Science*	3	Career Exploration	.5
Social Studies *Must include US History, World Cultures, and Civics & Economics*	3	Electives	6.5
Wellness *Must include 1 year of Phys Ed and ½ year of Health*	2	Community Service *Documented community service to begin in 9th grade*	20 *total* hours
Computer Education	1	**TOTAL**	**24 credits**

2. Epping Middle High School Scholars Diploma

Subject	*Credits*	*Subject*	*Credits*
English*	4	Computer Education	1
Math* *Must include Algebra*	4	Arts	1
Science* *Must include Biology & Physical Science*	4	Financial Literacy	.5
Social Studies *Must include US History, World Cultures & Civics & Economics*	3.5	Career Exploration	.5
Wellness *Must include 1 year of Phys Ed and ½ year of Health*	2	Electives	4.5
World Language	2	*Community Service* *Documented community service to begin in 9th grade*	35 *total* hours
**Classes must be taken at the college-prep level or to earn the NH Scholars distinction*		**TOTAL**	**27 credits**

3. Epping Middle High School Diploma of Distinction

Subject	*Credits*	*Subject*	*Credits*
English*	4	Computer Education	1
Math* *Must include Algebra*	4	Arts	1
Science* *Must include Biology & Physical Science*	4	Financial Literacy	.5
Social Studies *Must include US History, World Cultures & Civics & Economics*	4	Career Exploration	.5
Wellness *Must include 1 year of Phys Ed and ½ year of Health*	2	Electives	6
World Language	3	*Community Service* *Documented community service to begin in 9th grade*	50 *total* hours
**Classes must be taken at the college-prep level or higher to earn the NH Scholars Distinction*		**TOTAL**	**30 credits**

4. Epping Middle High School State Diploma

Subject	*Credits*	*Subject*	*Credits*
English	4	Arts	.5
Math *Must include Algebra*	3	Computer Education	.5
Science *Must include Biology & Physical Science*	2	Wellness *Must include 1 year of Phys Ed and ½ year of Health*	1.5
Social Studies *Must include: 1 US History, ½ World Cultures, and Civics & Economics*	2.5	Electives	6
		TOTAL	**20 credits**

ENGLISH & MATH 4-YEAR REQUIREMENT

As required by the state of New Hampshire, all students must be engaged in a course that applies English competencies and a course that applies Mathematics competencies for every year they are enrolled in high school, even if the English or Math graduation credit requirement has already been met.

English: Students must take an English course every year.

Math: Students must take at least three years of a traditional math course and a fourth year of either traditional math or a "Math Experience" course. "Math Experience" courses are indicated in the course descriptions section of the Program of Studies with ***Math Exp.*** and includes courses that apply math concepts.

COURSE LOAD

Students are required to enroll in the following minimum number of credits at Epping High School per year:

Freshmen: 7 credits	Juniors: 7 credits
Sophomores: 7 credits	Seniors: 6 credits

Please note that extended learning opportunities and other courses taken after or outside of school do not count toward this total without prior approval from the principal. Students in the second year of an SST program may take 1 credit less than the requirement due to scheduling/time constraints.

ATHLETIC & EXTRACURRICULAR ACTIVITY ELIGIBILITY

Students must be passing all competencies in 5 courses at predetermined marking periods to be eligible for athletics and extracurricular activities. The four marking period dates will be set each school year in conjunction with traditional quarter dates in November, January, April, and June. Courses from other approved high schools such as Seacoast School of Technology and the Virtual Learning Academy Charter School do count towards eligibility**.** Since VLACS does not report quarterly grades, the VLACS grade displayed in the portal on the predetermined date will be the grade used for athletic eligibility. For the purpose of eligibility, classes that are graded Pass/Fail do not count towards this total. Pass/Fail courses include, but are not limited to: Student Aide, ELO's, and Internships. Please refer to the Student & Parent Handbook for more information about athletic eligibility.

PROMOTION REQUIREMENTS

In order for a student to qualify as a member of the indicated class, the minimum number of credits must be acquired. Class standing indicates the class activities in which a student may participate and vote.

- A student must have **17** credits to be a senior
- A student must have **12** credits to be a junior
- A student must have **6** credits to be a sophomore

GRADING POLICIES

GRADE/GPA SCALE FOR EHS COURSES

	GPA Points by Class Type		
Semester Grade	***Standard / College Prep***	***Honors / Dual Enrollment***	***Advanced Placement***
Exemplary (E)	4.00	4.50	5.00
Meets Competency Plus (MC+)	3.50	4.00	4.50
Meets Competency (MC)	3.00	3.50	4.00
Basic Competency Plus (BC+)	2.50	3.00	3.50
Basic Competency (BC)	2.00	2.50	3.00
Novice (N)	0.00	0.00	0.00
Insufficient Work Submitted (IWS)	0.00	0.00	0.00

GPA SCALE FOR SST, DISTANCE LEARNING, and TRANSFER GRADES

Courses taken outside of Epping High School at accredited institutions will be included in a student's cumulative GPA based on the scale below:

	GPA Points by Class Type		
GRADE	**Standard / College Prep**	**Honors / Dual Enrollment**	**Advanced Placement**
A-, A, A+	4.00	4.50	5.00
B-, B, B+	3.00	3.50	4.00
C-, C, C+	2.00	2.50	3.00
D-, D, D+	1.00	1.50	2.00
F, WF, Inc.	0	0	0

WEIGHTED GRADE POINT AVERAGE (GPA)

A student's GPA is determined by multiplying the grade point value earned for the semester by the credits earned for each individual class, totaling the grade points earned, and then dividing the total grade points earned by the total credits attempted.
Sample Semester GPA Calculation:

Class	**Semester Grade**	**GPA Points**	**Credit Earned**	**Grade Points Earned**	**Credit Attempted**
AP History	MC	4.00	0.5	2.00	0.5
American Literature	MC	3.00	0.5	1.50	0.5
Honors Precalculus	E	4.50	0.5	2.25	0.5
Ceramics	MC	3.00	0.5	1.50	0.5
SST Computer Science (S1)	B-	3.00	1.0	3.00	1
TOTAL				10.25	3
		GPA= Grade Points Earned / Credits Attempted			**3.416**

Grade Point Averages are recalculated at the end of each semester *or* when credit is awarded for completing a class. GPA is cumulative, every eligible class from every semester is factored into a student's GPA. It is important to note that your Epping High School GPA is not a universal number, every high school may calculate GPA a different way. Most colleges will recalculate an applicant's GPA using their own numbers and methods, often only including core academic subjects.

WEIGHTED CLASS RANK

Class Rank is determined by putting the GPA's of all students in a class in rank order from highest to lowest. For example, a senior with the rank of "5" has the fifth highest GPA in the senior class. Class rank is only reported on transcripts.

GRADUATION HONORS- Classes of 2024-2025

Students will be eligible to earn one of the following Latin Honors based on their cumulative GPA at the conclusion of the first semester of senior year:

3.50-3.74 = ***Cum Laude***
3.75-3.99 = ***Magna Cum Laude***
4.00 or higher = ***Summa Cum Laude***

Students in the Classes of 2024-2025 who earn the *Summa Cum Laude* distinction will be eligible to apply for the role of the "Honors Speaker" at their graduation ceremony. Eligible students may submit a speech to be selected by a panel of teachers and administrators.

GRADUATION HONORS- Class of 2026 and beyond

Students will be eligible to earn one of the following Latin Honors based on their cumulative GPA and other requirements as listed below at the conclusion of the first semester of senior year:

Cum Laude
GPA of 3.5 or higher

Magna Cum Laude
GPA of 3.7 or higher
4 Honors/AP credits (2 credits must be from junior and/or senior year)

Summa Cum Laude
GPA of 3.9 or higher
8 Honors/AP credits (4 credits must be from junior and/or senior year)

Students earning the *Summa Cum Laude* distinction will be eligible to apply for the role of the "Honors Speaker" at their graduation ceremony. Eligible students may submit a speech to be selected by a panel of teachers and administrators.

HONOR ROLL

Honor roll will be determined at the end of each semester and is based only on the grades earned in that semester, not cumulative GPA. To qualify for the honor roll at Epping High School, students must be enrolled in a minimum of 4 EHS courses and meet the following criteria:

Principal's List: 3.75 Semester GPA or higher
Honor Roll: 3.5 Semester GPA or higher

ADVANCED PLACEMENT (AP) COURSES

Any student who is capable of and wishes to take Advanced Placement courses will be permitted to do so. School counselors will provide assistance to students who wish to enroll in such courses. Advanced Placement Courses are college level courses that students can take while still in high school. At the conclusion of the course, students take the corresponding AP exam for a fee. AP exams are standardized, three hour exams given in May, which are graded on a scale of 1 to 5, with 3 considered a "qualifying" score for most colleges. If a student receives a qualifying score on the exam, they may be eligible for advancement placement or course credits at many colleges and universities in the United States. AP courses require students to make a commitment to meeting individual course requirements, which include, but are not limited to, completing summer work and certain prerequisites for enrollment.

If Advanced Placement courses are not available within Epping High School, school counselors will assist students in finding alternative means of taking such classes. Credit may be given provided the course meets school policy. The student will be responsible for any tuition, fees, transportation, or other associated costs.

RUNNING START COURSES

Running Start courses are a partnership between high schools and the NH Community College System, with the courses being taught at EMHS by an EMHS teacher. These courses, when completed successfully and for a fee of up to $150, will earn both high school credit as well as college credit. EHS currently offers College Composition, PreCalculus, Calculus, and Quantitative Reasoning through Great Bay Community College. The college credit earned can be transferred to many colleges and universities in the United States. Many courses at the Seacoast School of Technology also have a Running Start option and this information can be found on the SST website.

HONORS-OPTION COURSES

Honors-Option courses are available at Epping High School when a dedicated honors section does not exist. An Honors-Option can be taken in certain college-prep classes by completing a contract with the teacher to meet honors level requirements. The contract is a Powerschool form that both student and teacher need to complete at the beginning of a semester. Students choosing Honors Option will be expected to complete additional assignments, attend Honors FLEX sessions, and meet other teacher expectations, leading to a greater depth and understanding of the material studied. Honors-Option credit is awarded at the end of the semester when the teacher certifies that the student successfully completed all expectations.

Classes with an honors option (subject to change): English I, US History, English II, World Cultures, Physical Science, Civics, Economics, Chemistry, Physics, Anatomy, and Concert Band.

DROP/ADD PROCEDURES FOR COURSES

Scheduling of classes for each school year begins in March of the preceding school year when students request their classes. Therefore, a student has at least five months prior to the start of the school year in which to consider the courses he/she will be taking and to work with the counseling department to develop his/her schedule. Given this lengthy period of time, there will be no student or parent initiated changes to a student's schedule after the opening of school except under the following conditions:

1. The student has been misplaced in a course.
2. The student has failed a prerequisite for a course now scheduled.
3. The student has a study period and wishes to add a class.
4. The student wishes to improve the rigor of their transcript.
5. Switching out of an elective does not cause the class to have too few students.

A student seeking to drop a course for reasons above should discuss this with his/her parents, the teacher, and school counselor. **The add/drop time period will be within the first 5 days of the start of the course**. We understand there may be circumstances where a student requests to drop a class for other reasons not listed above, these requests must be for extenuating circumstances and approved by the principal. If the request is made after the add/drop time period and *if* approved by the principal, the student will receive either a WF (withdrawal failing) or WP (withdrawal passing) on their transcript depending on their grade at the time.

REPEATING COURSES FOR CREDIT

Chorus and Band may be repeated every year with credit earned for each semester successfully completed. Exploring Publishing class, which maintains the school newspaper, may also be repeated for credit with teacher approval. Any other class that is repeated when credit has already been earned will not result in earning additional credit for that class. If deemed appropriate by the teacher and the principal, a student may retake a previously passed class to earn a higher grade but will not receive credits for taking the class again.

With teacher approval, based on class size and student motivation, a student may request to retake a Physical Education class but will not earn credit for taking the same class a second time.

EARLY GRADUATION

Students are encouraged to spend four years completing their high school education choosing from the rich array of courses available. Meeting requirements in less time is possible, but not recommended in most cases. In some special circumstances, it is appropriate for a student to graduate early and we will work closely with such students to meet their needs. An appointment with a school counselor is the first step for students exploring this option. In all cases, permission of the Principal is required. Below is a list of the steps to follow.

1. A student meets with their school counselor to review credit status and discuss an Early Graduation Plan
2. A letter of support for early graduation is required of parents/guardians and must accompany the application.
3. A student intending to graduate at the end of their junior year should apply in the spring of their sophomore year. A student intending to graduate at the end of the first semester of their senior year should apply at the beginning of their junior year.
4. Within four weeks of submitting the application, the Principal will review the request and render a decision. Approval will be based upon the appropriateness of early graduation to the student's transition plan and the attainment of required credits. The student will receive written notification of the decision.

If requirements are met in time for graduation at the end of the junior year, the student may participate only in June graduation exercises. If met by mid-year senior year, a Letter of Certification can be provided if needed. The graduate may receive a diploma during the graduation exercises of their class or separately without a ceremony. Any student who graduates early may not participate in any academic, athletic, or extracurricular activities after their graduation date. Seniors who graduate mid-year may seek permission from the principal to participate in special senior events such as the senior trip. Juniors who graduate a year early are not considered to be seniors and may not participate in senior events except graduation without seeking prior approval from the principal.

NEW HAMPSHIRE SCHOLARS PROGRAM

What is the New Hampshire Scholars Program?
The New Hampshire Scholars Program recommends a Core Course of Study to high school students giving every participating student the advantage of well-rounded, more challenging coursework in English, math, science, social studies and foreign language. Students who undertake this rigorous Core Course of Study will challenge themselves to do their best work during their high school career and will enjoy a wider range of postsecondary options upon graduation.

Benefits of being a New Hampshire Scholar

- Advanced preparation for college
- Recognition as a State Scholar at high school graduation
- Designation as a State Scholar on high school transcript
- Become a better candidate for certain types of scholarships and financial aid
- Free applications at most colleges in New Hampshire

New Hampshire Scholars Core Curriculum:

English: 4 years of college-prep classes (English I, II, III, IV, or AP English)

Math: 4 years, to include college-prep Algebra I, Geometry, and Algebra II

Science: 3 years of college-prep lab science chosen from: Biology, Chemistry, Physics, Anatomy, AP Chemistry, or

Social Studies - 3.5 years, to include Civics, Economics, World Cultures, US History, and another approved course

World Language - 2 years of the same world language other than English

Additionally, NH Scholars offers distinctions in the areas of Arts, STEM, and STEAM. To be eligible for the Arts Distinction, a student must have a 3.2 GPA and, in addition to the above requirements, must have earned 2 credits in arts courses. To be eligible for the STEM distinction, students must have a 3.2 GPA and, in addition to the above requirements, must have earned an additional 1 credit in either college prep math, lab science, engineering, technology, or computer science. A STEAM Distinction combines the Arts and STEM requirements.

Students who complete the Core Course of Study will be prepared both for college and work. They will also be recognized at graduation as New Hampshire Scholars. Other courses not listed above may also qualify for New Hampshire Scholars including some Seacoast School of Technology courses. *Credit/competency recovery for a required course will disqualify a student from earning this recognition.* Courses that meet a requirement will be indicated in the course descriptions.

FRESHMAN AND SOPHOMORE PROGRAMS

In order to facilitate the transition into high school, the curriculum is delivered with a focus on small learning communities, heterogeneous grouping and a collaborative approach to instruction. Teachers closely monitor student progress and are able to quickly identify students who are having difficulty with motivation, achievement or interpersonal skills and promptly address those issues in conjunction with students and parents/guardians.

GRADE 9 REQUIREMENTS

All 9th grade students must take English I, Biology, US History, a math course, and Physical Education (when possible). In addition, at least 2 elective credits must be selected as freshmen must take a minimum of seven credits.

GRADE 10 REQUIREMENTS

All 10th grade students must take English II, Physical Science, World Cultures, a math course, and Health. In addition, 2.5 elective credits must be selected as sophomores must take a minimum of seven credits.

ASSESSMENT SCHEDULE

- All 9th grade students will take the PSAT 8/9 in the spring of freshman year.
- All 10th grade students will take the PSAT 10 in the spring of sophomore year.
- All 11th grade students will have the option to take the PSAT/NMSQT in the fall of their junior year to continue preparations for the SAT, which is taken by all students in the spring of their junior year.

CAREER DEVELOPMENT PROGRAM

The SAU 14 Career Development Program is based on the State of New Hampshire's SB 276 which states: *Beginning in September 2020, and each year thereafter, school districts shall, for entering high school freshman: assess student career interests; document school pathways to career readiness credentials; advise all entering high school students how to achieve a career ready credential upon graduation; and record on a student's transcript progress towards the credential.*

Beginning in 9th grade and continuing throughout high school, students will engage in career assessments of various types which may include: interest inventories, skills inventories, values inventories, and personality assessments. Additionally, students will participate in career advising sessions with school counselors to develop their Career Readiness Pathways and document progress towards Career Readiness Credentials.

A Career Readiness Pathway refers to a series of courses and learning experiences that leads to a credential. A Career Readiness Credential refers to any type of documented achievement which certifies that essential skills have been met for future success. Some examples of Career Readiness Credentials for an Epping High School student include: a certificate of completion from the Seacoast School of Technology, earning dual-enrollment/Running Start credit, completing a work-based Extended Learning Opportunity, or completing the NH Scholars STEM curriculum.

MEETING COLLEGE REQUIREMENTS FOR ADMISSION

Colleges prefer applicants who have taken a rigorous high school program, including honors and advanced classes when appropriate, and who have demonstrated growth and strong character. In addition, there are many colleges that will accept students with average grades who have demonstrated particular skills or exceptional qualities of character and leadership. As you plan, consider the guidelines below:

4-YEAR COLLEGE REQUIREMENTS

ENGLISH	4 credits
SOCIAL STUDIES	3 - 4 credits
MATH (College Prep)	3 - 5 credits, including at least Algebra II
SCIENCE	3 - 5 credits, including Chemistry
FOREIGN LANGUAGE	2 - 5 credits depending on college/major
ELECTIVES	Electives should be taken from those available based upon personal interests and educational goals, i.e. Art, Business, Computer, Technology Education, Music

AP and Honors Courses/Options are highly encouraged for 4-year schools.

2-YEAR COLLEGES and TECHNICAL/TRADE SCHOOLS

Vocational and Technical Schools vary widely in their requirements. Generally, a strong foundation in math and science is important.

ENGLISH	4 credits
SOCIAL STUDIES	3 credits
MATH	3 - 4 credits
SCIENCE	3 - 4 credits
FOREIGN LANGUAGE	0 - 3 credits depending upon college/major
ELECTIVES	as above (chosen with a career in mind)

Employment After High School (suggested)

ENGLISH	4 credits
SOCIAL STUDIES	3 credits
MATH	3 - 4 credits
SCIENCE	3 - 4 credits
TECHNOLOGY-BUSINESS	2 - 3 credits
ELECTIVES	as above (chosen with a career in mind)

REQUIREMENTS FOR PARTICIPATION IN COLLEGE ATHLETICS

To be eligible to compete in NCAA sports during your first year at a **Division I** school, you must graduate high school and meet **ALL** the following requirements:

Complete 16 core courses:

- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social studies
- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

- Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.
- Earn at least a 2.3 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale.

To be eligible to compete in NCAA sports during your first year at a **Division II** school, you must graduate high school and meet **ALL** the following requirements:

- Complete 16 core courses:
    - Three years of English.
    - Two years of math (Algebra 1 or higher).
    - Two years of natural or physical science (including one year of lab science if your high school offers it).
    - Three additional years of English, math or natural or physical science
    - Two years of social science
    - Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a 2.2 GPA in your core courses.
- Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division II sliding scale.

Students who plan to participate in Division I or Division II college athletics must register with the NCAA Eligibility Center (www.ncaa.org). The Eligibility Center issues a preliminary certification report to the college once all your materials have been submitted. After you graduate, the Eligibility Center reviews your final transcript to make a final certification decision according to NCAA standards.

PLANNING A COURSE OF STUDIES

The Program of Studies contains valuable information that is important for students to consider as they go through high school. Students should talk with their parents, school counselor and teachers to help them make the best selections. Make sure to review the Graduation Requirements, Course Descriptions, as well as the recommended course sequence below to help you figure out which classes to take. Make sure to consider your interests and think about what you might want to study or work at after high school. If students and parents consider these things when making course decisions, they will see the four years students spend in high school as the stepping stone to their future whether going to college or a trade school, into the military, or entering the workforce.

FRESHMAN YEAR
English- English I
Math- Algebra or Honors Geometry *(only if Algebra was taken in 8th grade)*
Science- Biology
Social Studies- US History
Physical Education
Electives- World Language, Art, Family & Consumer Sciences, Music, etc.

SOPHOMORE YEAR
English- English II
Math– Geometry or Algebra II
Science– Physical Science
Social Studies– World Cultures
Health
Electives– World Language, Art, Family & Consumer Sciences, Music, etc.

JUNIOR YEAR
English- English III or AP English
Math– Algebra II or Pre-Calculus
Science– Chemistry or Anatomy or Natural Resources
Social Studies– Civics & Economics
Electives– SST, World Language, Art, Family & Consumer Sciences, Music, etc.

SENIOR YEAR
English– English IV or AP English or Practical Reading/Writing
Math– Pre-Calculus or Quantitative Reasoning or AP math
Science– Physics or Anatomy or Chemistry
Social Studies Elective
Electives – SST, World Language, Art, Family & Consumer Sciences, Music, etc.

FOUR-YEAR COURSE PLANNING WORKSHEETS

Students can use the worksheets on the next few pages to help plan a course of study to meet the requirements for earning a high school diploma. Please see your school counselor to make a four year plan to meet your personal post-secondary goals. Some of the required classes have already been filled in. **Use the open spaces to plan your electives and your other required classes.**

Classes of 2024 & 2025

Grade 9

1. English I
2. Math_____
3. Biology
4. US History
5. Physical Education
6. _____
7. _____
8. _____
9. _____

Grade 10

1. English II
2. Math_____
3. Physical Science
4. World Cultures
5. Health (½ credit)
6. _____
7. _____
8. _____
9. _____

Grade 11

1. English_____
2. Math_____
3. Science_____
4. Civics & Economics
5. _____
6. _____
7. _____
8. _____
9. _____

Grade 12

1. English_____
2. Math or Math Exp _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Class of 2026 & Beyond: Diploma Requirements Worksheet

English: *4 Credits*	**Year**	**Credit**
1. English I (1 cr.)	9	
2. English II (1 cr.)	10	
3.	11	
4.	12	
Math: *Standard: 3 Credits* *Scholars & Distinction: 4 Credits*	**Year**	**Credit**
1.		
2.		
3.		
4.		
Science : *Standard: 3 Credits* *Scholars & Distinction: 4 Credits*	**Year**	**Credit**
1. Biology (1 cr.)	9	
2. Physical Science (1 cr.)	10	
3.		
4.		
Social Studies: *Standard: 3 Credits* *Scholars: 3.5 Credits* *Distinction: 4 Credits*	**Year**	**Credit**
1. US History (1cr.)	9	
2. World Cultures (1 cr.)	10	
3. Civics (.5 cr)	11	
4. Economics (.5 cr)	11	
5.		
6.		
Computer Education: *1 credit*	**Year**	**Credit**
1.		
2.		
Wellness: *2 Credits*	**Year**	**Credit**
1. Physical Education (1 cr.)	9	
2. Health Education (.5 cr.)	10	
3.		
Financial Literacy: *½ Credit*	**Year**	**Credit**
1.		

Arts: *Standard: ½ Credit* *Scholars & Distinction: 1 Credit*	**Year**	**Credit**
1.		
2.		
Career Exploration: *½ Credit*	**Year**	**Credit**
1. 4-Year Project	9-12	
World Language: *Standard: NOT REQUIRED* *Scholars: 2 Credits* *Distinction: 3 Credits*	**Year**	**Credit**
1.		
2.		
3.		
Electives: *Standard: 6.5 Credits* *Scholars: 4.5 Credits* *Distinction: 6 Credits*	**Year**	**Credit**
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
Community Service	**Complete**	
Standard: 20 Hours		
Scholars: 35 Hours		
Distinction: 50 Hours		
Total Credits by Year	**Credits Earned**	
Grade 8/9		
Grade 10		
Grade 11		
Grade 12		
Total:		

Class of 2026 & Beyond: Graduation Honors Tracker

Cum Laude
"Graduating With Distinction"

- 3.5 GPA (after 7 semesters)

GPA Tracker	
Grade/Semester	**Cumulative GPA**
Grade 9: S1	
Grade 9: S2	
Grade 10: S1	
Grade 10: S2	
Grade 11: S1	
Grade 11: S2	
Grade 12: S1	

Magna Cum Laude
"Graduating with Great Distinction"

- 3.7 GPA (after 7 semesters)
- 4 Honors/AP credits
- *At least 2 honors/AP credit in grades 11 / 12*

Honors / AP Course	Year	Credit Earned
1.		
2.		
3.		
4.		

Summa Cum Laude
"Graduating with Highest Distinction"

- 3.9 GPA (after 7 semesters)
- 8 Honors/AP credits
- *At least 4 honors/AP credits in grades 11 / 12*

Honors / AP Course	Year	Credit Earned
5.		
6.		
7.		
8.		

EXTENDED LEARNING OPPORTUNITIES & ALTERNATIVE CREDIT OPTIONS

Extended learning opportunities (ELO) permit a student to acquire knowledge and skill through instruction or study outside of the traditional classroom. An Epping High School student may combine any of the opportunities below, with prior approval, to earn credits. It should be noted that ELO credits are not part of a student's daily schedule and are not counted toward the minimum credit enrollment requirements per year. ELO's are not used for determining athletic/extracurricular eligibility (unless otherwise noted below).

With the exception of accredited online courses, ELO's require students to meet certain criteria for credit to be awarded and must have a certified teacher serving as the advisor. The four main components of an ELO are:
1. Research **2.** Reflection **3.** Product **4.** Presentation.
The student will work with the ELO coordinator and their teacher/advisor to set a timeline and action plan to meet these four components.

The first step for any student considering an ELO is to meet with their school counselor to discuss their idea. All ELO's require approval from the school counselor, principal, and parent. If prior approval is not granted, credit will not be awarded. Therefore, there will be no retroactive credit awarded for previous learning experiences that were not discussed and approved.

Any cost incurred from an ELO is solely the responsibility of the student/parent.

INDEPENDENT STUDY
Epping High School offers students the opportunity to earn credit on an independent basis for subjects which are not already offered in the school curriculum. A student might pursue an independent study in a certain academic area (poetry or meteorology, for example) with a faculty member serving as the advisor. Independent study classes can happen during the school day (when possible) or outside of school hours. An independent study can earn either ½ or 1 credit; this is determined in the planning stages by the advisor, student, and school counselor. *Graded as pass/fail*

VIRTUAL ONLINE SCHOOLS
Virtual schools are available online and provide students the flexibility of anytime/anywhere access to rigorous and personalized education. Epping High School students may access the Virtual Learning Academy Charter School (VLACS) or a number of other accredited online institutions. Some online programs provide dual-credit options where a student can earn both high school and college credits for a class. Online learning requires the student to be independent and self-motivated. Students must meet with their School Counselor to discuss this option for high school credit. VLACS courses do count towards athletic/extracurricular eligibility; the grade displayed in the VLACS portal at the time of Epping High's grade review will be used to determine eligibility.

COMMUNITY SERVICE
Students have the opportunity to create an ELO around Service Learning. This permits a student to pursue an academic interest while performing a service for the community. Example volunteer sites include: hospitals, nursing homes, day care centers, nursery schools, veterinary clinics, town offices and the Salvation Army. Students are responsible for setting up the service opportunity but must work with the school counselor to create a plan if seeking credit. *Graded as pass/fail*

INTERNSHIPS
Internships permit students to spend time at worksites related to their career choice. Students develop broad skills and receive firsthand knowledge of a particular career. These experiences require a great deal of self-knowledge and commitment from the student and business. Students are responsible for pursuing internship sites on their own and for communicating with the business about their internship but must work with the school to create a plan if seeking credit. *Graded as pass/fail*

TRAINING & APPRENTICE PROGRAMS
These programs are developed by local organizations and include predefined learning objectives and training experiences for students. An example of this is the Fire Explorers program through the Epping Fire Department. These opportunities require a dedicated commitment from the student to progress through the program. Students are responsible for pursuing these programs but must work with the school to create a plan if seeking credit. *Graded as pass/fail*

SUMMER LEARNING OPPORTUNITIES
There are many opportunities for students to gain knowledge and skills in a variety of areas during the summer months. Examples of these opportunities are: the Advanced Studies Program at St. Paul's School; athletic programs which are usually held at colleges and boarding schools; and leadership programs such as the National Youth Leadership Forum. Many of these programs are very competitive and rigorous and some can be very expensive. There are many scholarships available and sometimes you can find a comparable program at a more local setting. All of these programs are excellent stepping stones along the path to post-secondary education and are something colleges and universities look very favorably upon, however, students do not typically earn any high school credit for them and all expenses incurred are the responsibility of the student. Students who wish to seek credit for any summer learning experience should discuss it with their school counselor well in advance to determine if an ELO project can be developed. *Graded as pass/fail*

OPTIONS FOR REGULAR & ALTERNATIVE HIGH SCHOOL CREDIT

Students at Epping High School have a variety of ways to earn credit. While most credits will be earned via traditional classes, other options exist. Students who are interested in exploring alternative means should begin by seeing their school counselor. Please note that many options require prior approval and should not be undertaken without first ensuring that approval has been granted.

OPTIONS	**PROGRAM OF STUDIES**
EHS course credit	Grades 9-12 must meet minimum credit requirements (p. 8)
Credit/Competency Recovery	Computer-based or teacher-generated learning, offered during the school day for students who have previously not earned credit in a course. Credit recovery is limited to 2 credits per required academic subject (i.e. English, science, math, social studies) over the course of the student's high school career. Upon successful completion of the recovery program, credit is awarded reflecting a basic level of competency (BC). Enrollment is limited and is approved through the Alternative Program Counselor.
Summer school credit	Computer-based learning at EHS summer school follows the same guidelines listed above for *Credit Recovery*; or may enroll in other accredited schools' summer programs with prior approval.
Summer activities credit	Principal prior approval required
Middle school credit	Middle school students can earn high school credit for successfully completing Algebra I and/or Computer Proficiency in the middle school. The grade will be reported on transcripts as "P" for Pass with credit awarded. Middle school students who take a high school course, such as Spanish or Geometry, will receive a grade and credit with GPA points awarded.
Student transfer credit	Subject to meeting state and school graduation requirements, principal approval required
College/dual enrollment credit	Principal prior approval required
Distance/online learning credit	Principal prior approval required.
Extended learning opportunities	Principal prior approval required
EHS competency exam credit	Student or parent-initiated credit by examination; principal approval required. *Graded as Pass/Fail*

2023-2024 Course Catalog

Not all courses are offered every year.
Courses are selected to run based on teacher availability and student interest.

Course Listing by Department

English
English I
English II
English III
English IV
Practical Read/Writing
Honors English IV
College Composition
AP Literature & Comp
AP Language & Comp
Fundamentals of English
Intro to Podcasting
Acting 101
Exploring Publishing
Film Appreciation
Non-Fiction Film Studies
Film Production

Social Studies
US History
World Cultures
Civics
Economics
AP US History
AP World History
Cold War: A Global History
Criminology
Psychology
Archeology
American Studies: Pop Culture
Intro to Philosophy
Legal Studies
20th Cent. to Modern World History

Science
Biology
Honors Biology
Physical Science
Natural Resources
Chemistry
Anatomy & Physiology
Physics
Green Technology
Astronomy
AP Chemistry

Mathematics
Algebra I
Algebra IA
Algebra IB
Geometry
Informal Geometry
Honors Geometry
Algebra II
Algebra II Concepts
Honors Algebra II
Pre-Calculus
Honors Pre-Calculus
Quantitative Reasoning
Survey of Math
AP Calculus AB
AP Statistics
Fundamentals of Mathematics

Art
Cultural Arts
Jewelry Design
Art in the Community
Ceramics I
Drawing
Painting
Glass Arts
Ceramics II
Digital Photography
Printmaking
Advanced Studio Art

Business & Computer Education
HTML/CSS Coding
Graphic Design & Animation
Computer Essentials
Marketing
Business Management
Accounting I
Business & Personal Finance
Entrepreneurship
International Business

Family & Consumer Sciences
Food Choices
Food Choices II
Sewing & Textiles
Child Development

Music
Concert Band
Chorus
Intro Guitar & Ukulele
Music Theory
Digital Music Production
American Pop Music
Music of Video Games

Wellness
Physical Education
Team Sports
Lifetime Activities
Weights & Fitness
Health Education
Sports Management
Wilderness First Responder
EMT Training & Certification

Technical Education
Woodworking I
Woodworking II
Computer Aided Drafting
Engineering & Adv Manufact. I
Engineering & Adv Manufact. II

World Languages
French I
Spanish I
French II
Spanish II
French III
Spanish III
French IV Honors
Spanish IV Honors
French IV Honors
Spanish V Honors

Seacoast School of Technology
Animal & Plant Science I & II
Automotive Technology I & II
Biomedical Science & Tech I & II
Building Construction Tech I & II
Careers in Education I & II
Computer Science I & II
Culinary Arts I & II
Digital Media Arts I & II
Health Science Technology I & II
Marketing Technology I & II
Pre-Engineering I & II
Welding Technology I & II

ART DEPARTMENT

Cultural Arts
½ credit
This course focuses on the different cultures of the world through the arts and handcrafts these cultures produce. Through hands-on experiences, students will discover cross-cultural themes while creating art that has personal meaning and value. A variety of art activities will be explored including drawing, painting, printmaking, fiber arts, sculpture, and mixed-media work.

Drawing
½ credit
In this course, students will learn the technical, observational, and creative skills used to render the observed world on paper. Through a variety of projects, students will be introduced to contour drawing, shading techniques and the basics of color theory in order to improve their drawing ability. Included mediums are graphite, charcoal, content, ink, pastels, and colored pencil. Students are encouraged to apply these skills in the Painting course or other advanced art offerings.

Jewelry Design
½ credit
This semester-long course will focus on all aspects of wearable art. Through the ongoing study of other cultures, students will be able to connect their experiences to the wider global tradition of crafting and jewelry making. Students will explore various techniques for creating jewelry from metal, stone, clay, glass, and wire. Additionally, other wearable art and domestic crafts such as weaving, felting and batik will be explored.

Art in the Community
½ credit
This course will explore the impact of public artwork within our society. Students will work together to create public displays of art across our school campus and within the Epping community. The collaborative nature of creating art will be emphasized as students develop and implement projects using a variety of media. Interdisciplinary learning opportunities will be provided as students create works of art utilizing themes from other content areas like science, literature or technology.

Ceramics I
½ credit
Working with clay is one of the oldest and most widely practiced forms of art. Along with the historical and cultural context of ceramics, students will learn a variety of techniques for creating both hand-built and wheel-thrown pieces. Students will produce pieces that are constructed through pinch, slab, and coil methods. Wheelwork and mold making will also be introduced as skills are developed and refined.

Printmaking
½ credit
This course introduces the student to the full range of printmaking techniques and processes like stenciling, mono-printing, block printing, screen printing, and other image transfer methods. Students will gain historical perspective, incorporate modern technology, and use various media like paper, cloth, and clay.

Glass Arts
½ credit
Glass Arts will provide students with the opportunity to explore stained glass, fused glass, and mosaic arts. Techniques for cutting, grinding, soldering and fusing glass will be learned with an emphasis on personal safety and studio etiquette. Once students have mastered the basics, there will be time for creative exploration of the wide range of artistic opportunities this medium provides. Both functional and decorative pieces will be created that challenge students technically and creatively.

Digital Photography
½ credit
In Digital Photography, students will learn how to use the camera as a tool to make art. After students master the basics of operating a camera, they will be encouraged to develop their photographic techniques through the study of composition, lighting, and other creative effects. Photoshop will be introduced as students learn how to edit, retouch, and manipulate their digital images. Students will create their own portfolio of work throughout the semester as they work to develop their own artistic style. *Students are encouraged to supply their own digital SLR camera. Prerequisite: Open to students in grades 11-12 or with instructor approval.*

Painting
½ credit
Students will be building upon the techniques and skills developed in Drawing, with an increased focus on color theory and composition. Students will be encouraged to develop their own creative expression through the variety of painting media and styles learned in this course. Included mediums are tempera, watercolor, gouache, acrylic and mixed media. Painting techniques and styles from pre-history to the modern era will be studied to enhance student's own expression and creativity. *Prerequisite: Successful completion of Drawing.*

Ceramics II
½ credit
Interested ceramics students are encouraged to continue their study of both hand built and wheel techniques in this advanced pottery course. Emphasis will be placed on the creative exploration of the artistic process, which will allow students to find their own niche in ceramic production. Advanced techniques will be presented to further strengthen technical skills and increase student's knowledge of ceramics. Studio management responsibilities including processing clay, loading the kiln, and assisting with the firing process will also be introduced. *Prerequisite: Successful completion of Ceramics I.*

Advanced Studio Art
½ credit
Advanced Studio Art is a course designed for the serious art student who wants to pursue further education in art. The course will allow individuals to explore and develop specific areas of interest through the creation of a fine art portfolio. Students in Advanced Studio Art will be required to write a portfolio proposal, develop a personally meaningful concentration, and create a collection of work that shows individual expression and an advanced technical proficiency.
Prerequisite: Department head approval required

BUSINESS & COMPUTER DEPARTMENT

Computer Essentials
½ credit
Students will address the impact of computing technology by exploring the five core areas of computer science including computing systems, networks and the Internet, data and analysis, algorithms and programming, and the impacts of computing on society. Students will participate in the collaborative and design process to develop technological artifacts to solve real world problems. *This course meets a Computer graduation requirement.*

HTML/CSS Coding
½ credit
In this course, the student will be introduced to Web page design. Initially, students will learn the history of the Internet, proper use and navigation tools on the Internet, and then complete a series of projects using HTML & CSS code to create Web pages. The goal of the class is to enable students to develop the skills to enhance their productivity in the classroom and workplace. *This course meets a Computer graduation requirement.*

Graphic Design & Animation
½ credit
In this course students will engage in website design, digital video production, photography, and animation. This course allows students to create characterization and movement as well as creativity and basic photography editing skills. Students create characters and modify vector graphics to create action; they also design landscapes and create storyboards. Through this computer graphics course, students may learn to create short animations, professionally edit photos and designs, and manipulate videos. *This course meets a Computer graduation requirement.*

Marketing
½ credit
Marketing introduces students to marketing concepts, functions, and institutions. The course will cover the conduct and management of activities related to the marketing of goods and services. Students will receive an overview of marketing strategies, market segmentation, consumer behavior, advertising and promotion, channels of distribution, marketing institutions, and legal and economic issues. Additionally, students will work on various projects promoting and marketing school activities and products.

Business & Personal Finance
½ credit
Math Exp.
This course is designed to provide the student with a foundation in business, economics, and financial management. The goal is to prepare each student for the future by introducing them to a variety of topics that will have relevance in their lives now and in the long term. We will discuss topics such as: function of business, economics and economic systems, how the stock market works, investments, money, banking, credit, personal finance, and budgeting.

Business Management

½ credit

This course is designed to give students many opportunities to understand how the world of business, banking, and finance operates; and to practice making wise financial and business decisions. Students will receive in-depth information on how to make solid business and managerial decisions, the banking system, personal finance, and wealth management. Students will learn the fundamentals of investing and compete with other schools in a state-wide stock market game. The course will include related internet research, group activities, and critical thinking activities centered around current business and financial issues. Students will be afforded with opportunities to think, process, and analyze information and learn how to be successful in both their personal and professional dealings.

Entrepreneurship

½ credit

This course will help students gain an understanding of the business principles necessary to start and operate a business. Students will develop an awareness of the opportunities for small business ownership, the planning skills needed to open a small business, and explore the traits and characteristics of successful entrepreneurs. Students will learn about the knowledge needed in researching, planning, and operating a business, as well as the regulations affecting small businesses. Strategies in business management and marketing will be discussed as well as the economic role of the entrepreneur in the market system.

Accounting I

½ credit

Math Exp.

This course introduces accounting principles and applications to various service businesses. This class covers the accounting cycle, income determination, and basic financial reporting. Students will prepare, record, and analyze business transactions by journalizing them into formal business records. Included is a comprehensive study of the basic elements of accounting that emphasizes the nature and importance of formal accounting procedures.

International Business

½ credit

International Business will help students develop the appreciation, knowledge, abilities and skills needed to live and work in a global marketplace. This course will also provide an introduction to international business activities and the economic, cultural, and political factors that affect them. Some topics covered will be: global business structures, management, trade, global entrepreneurship, marketing, and career planning.

ENGLISH DEPARTMENT

English I
1 credit
NH Scholars English
During this year-long course, students will read a variety of literature from short stories to Shakespeare's *A Midsummer Night's Dream* and work to answer the essential question: Why do we read? The emphasis of this year is to develop skills in the English competencies (reading, writing, speaking & listening, and research & inquiry). Students will build a skill set from which they will draw throughout their time in high school. These skills include various types of academic writing, research, public speaking in presentations and collaborative discussions, and reading a range and variety of texts.
Honors Option available

English II
1 credit
NH Scholars English
This course focuses on the study and analysis of nonfiction texts and nonfiction composition. Students will delve more deeply into areas explored in English I, as well as cover new territory such as narrative writing, journalism, and media literacy.
Honors Option available
Prerequisite: Successful completion of English I or equivalent.

English III
1 credit
NH Scholars English
This course emphasizes creative and analytical writing for a college preparatory survey of American literature. The literature whole language approach integrates literature, writing, mechanics, and vocabulary. Evaluation of mastery is based on formative and summative work which includes: homework, quizzes, essays, creative writing, and independent projects. There will be units on Native American literature, colonial literature, romanticism, transcendentalism, realism, African-American literature, and modernism, utilizing a variety of short stories, plays, poems, and essays, with special attention paid to New England writers, from Puritan writing to the contemporary novel*, A Prayer for Owen Meaney* (Irving). Specific focus will be the development of college standard writing, thesis exposition, and college application essays.
Honors Option available
Prerequisite: Successful completion of English II or equivalent.

English IV
1 credit
NH Scholars English
This college-prep class provides students with the opportunity to develop reading, writing, research, and speaking skills necessary to be successful in college. As such, students can expect frequent reading and writing assignments. Students will read and discuss a variety of literary works ranging from the 15th century to today. Writing assignments will focus on the types of academic writing students are likely to find in college, including a formal argumentative research essay.
Prerequisite: Successful completion of English III or equivalent.

Practical Reading & Writing

1 credit

This course will focus on how we use literacy skills every day. Students will develop practical literacy skills by conducting a job shadow project, preparing for a job interview, and practicing critical reading of news sources. From technical reading and writing to job applications, students will hone their literacy skills to prepare for their lives after Epping High School.
Prerequisite: Successful completion of English III or equivalent.

Honors English IV

½ credit

NH Scholars English

An accelerated course in which students examine and analyze literature from various time periods and from around the world. Students enrolled in this course should be highly motivated and committed to reading and analyzing literature at a high school and college level. Through the use of Socratic Seminar and literary analysis essays, students will explore the craft of literature, including the use of literary elements and the development of theme in a text. This semester 1 course requires the completion of some summer work, including reading and writing assignments, and is an excellent choice to take prior to enrolling in College Composition.
Prerequisite: Successful completion of English III or equivalent.

College Composition

½ credit

NH Scholars English

College Composition is one of Epping High School's dual-enrollment courses. It can be taken in the 2nd semester of senior year after the successful completion of Honors English IV or the equivalent. Through this course, students may receive credit from Great Bay Community College, which can be transferred to numerous colleges and universities. In this course students learn to write clearly and effectively for defined audiences through a variety of strategies. Emphasis is on the writing process, from drafting through pre-writing, revision, and editing. This course places reading at the core of the writing curriculum by including interaction with reading selections as the vehicle for idea development, analytical and interpretive skill, and research, and to serve as writing models.
Prerequisite: Successful completion of Honors English IV or equivalent.

AP English Literature and Composition

1 credit

NH Scholars English

AP English Literature and Composition is a rigorous course designed to challenge gifted and motivated seniors. The course is taught as a college course, using university-level texts, promoting higher order thinking and discussion, and requiring the highest level of composition. Students who take this course will take the Advanced Placement Exam in the spring. It is possible for the student to earn college credit or to be exempted from a college requirement if a high enough score is achieved. *Offered every other year, opposite of AP English Language & Composition.*
Prerequisite: Successful completion of English II or equivalent and department head approval.

AP English Language and Composition
1 credit
NH Scholars English
AP Language and Composition is a course that focuses upon developing the highest level of reading and writing skills in senior students. Though often believed to be purely courses focused upon test preparation for the AP exam, AP courses are meant to take the place of college-level classes. With this in mind, AP Language and Composition has been tailored to be a class that prepares students for the rigor of college by enhancing students' understanding of English grammar, critical analysis skills, expository writing skills, and research skills. *Offered every other year, opposite of AP English Language & Composition.*
Prerequisite: Successful completion of English II or equivalent and department head approval.

ESOL Reading
1 credit
This course will offer opportunities for intensive reading through content-centered language learning. ESOL Reading will focus on building vocabulary and fluency. Strategies to enhance reading for meaning will also be implemented.
Administrative approval required.

Fundamentals of English
1 credit
This course is designed to provide the structure and instruction that will increase each student's basic English and critical thinking skills. The intent is to prepare them for higher level English courses and/or post-secondary living. Students will learn how English can be used to help in the decision making process that is vital to their successful employment and independent living.
Administrative approval required.

High School Reading
1 credit
This course is designed to provide reading instruction for high school students. The instruction will include phonics (spelling and word attack), vocabulary development, and comprehension (literal and inferential).
Administrative approval required.
This course is an elective credit, it does not meet the English graduation requirement unless specified in IEP.

ENGLISH ELECTIVES
The following courses are electives offered by the English department, these courses do not count towards the 4 credits of required English.

Film Appreciation
½ credit
This course will focus on using film to cultivate and enhance students' critical thinking, analysis, and interpretation skills. When we consider the evolution of technology and how it pervades American culture, film serves as an effective medium by which to practice these skills. Students will view a number of films throughout the course and respond to them in many different formats: analysis essays, film reviews, and small and large group discussions.
This course is an elective credit, it does not meet the English graduation requirement.

Non-Fiction Film Studies
½ credit
This course will focus on using documentary films to cultivate and enhance students' critical thinking, analysis, and interpretation skills. When we consider the evolution of technology and how it pervades American culture, film serves as an effective medium by which to practice these skills. Students will view a number of non fiction films throughout the course and respond to them in many different formats: analysis essays, film reviews, and small and large group discussion.
This course is an elective credit, it does not meet the English graduation requirement.
Prerequisite: Successful completion of English II

Podcasting: Audio Storytelling
½ credit
Students will explore audio storytelling by listening to, reviewing, and creating podcasts. They will learn the components of podcast production including interviewing, story development, voice, podcast script writing, interview techniques, digital audio recording, and editing of sound. No experience with recording or podcasting is necessary.
This course is an elective credit, it does not meet the English graduation requirement.

Exploring Publishing
½ credit
Students will complete a variety of in-class and outside reporting assignments in a journalistic style for submission to the student newspaper while also learning to submit creative writing to a variety of literary journals and contests. This course may be repeated for credit with instructor approval.
This course is an elective credit, it does not meet the English graduation requirement.

Acting 101
½ credit
Students will build their skills in acting including auditioning, improvising, listening, memorizing, script reading, and performing. Topics such as miming, puppetry, and dialects will be covered as well. Expect to participate in every class and exercise your acting muscles with creative activities. All levels of skill are welcome - just come with an open mind and a willingness to participate!
This course is an elective credit, it does not meet the English graduation requirement.

Drama Studies
½ credit
Students will build acting skills and their understanding of drama by analyzing, discussing, and performing scripts from a variety of time periods and cultures. The class will focus on participation and students will be expected to engage in acting exercises, games, improv, and scene work to help them develop their physical, emotional, and vocal expression. This class is meant to be an additional challenge for students who have already taken Introduction to Acting, but that prerequisite is not required.
This course is an elective credit, it does not meet the English graduation requirement.

Film Production
½ credit
Students will experience the creative process of movie production from pitching ideas, budgeting, scripting, and ultimately the collaborative production of a short film.
This course is an elective credit, it does not meet the English graduation requirement.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

Food Choices
½ credit
Students will be introduced to basic nutrition, safety, sanitation, health and food preparation. These concepts and skills will help students make better life time food choices. Skills and principles of food preparation will be emphasized in a laboratory setting. Students will be assessed in laboratory activities, classwork, tests, and projects.

Sewing & Textiles
½ credit
This beginning level course introduces students to the world of textile & clothing design and construction. Areas of study include basic sewing equipment, the use and care of the sewing machine, hand sewing, garment construction, care and maintenance. Emphasis is placed on basic sewing techniques and will apply reading, measuring, calculating, and problem-solving skills to create garments from commercial patterns.

Food Choices II
½ credit
Students will develop additional skills and concepts related to nutrition, health, safety, and advanced cooking techniques as they participate in laboratory activities. There will be an emphasis on meal planning and preparation with activities focusing on international food and meals. Students will be assessed in laboratory activities, classwork, tests, and projects.
Prerequisite: Successful completion of Food Choices. Meets the additional Wellness requirement for Class of 2026-2027

Child Development
½ credit
What do you really know about having children? In this course we will learn about the reproductive system, family planning, prenatal care and development, birth defects, the birth process, teen pregnancy, and theorists of child development. You will learn the physical, social, intellectual, moral and cultural development of infants, toddler, preschoolers, and school aged children. In this course they will participate in the Real Care Baby experience.
Prerequisite: Successful completion of Biology. Meets the additional Wellness requirement for Class of 2026-2027.

MATHEMATICS DEPARTMENT

Teachers use multiple sources of data to determine student placement which may include: course grades, assessment data, case manager input, and student/parent input. Algebra IA and Algebra IB classes have been created to cover the material covered in the traditional one year Algebra I course at a slower pace to ensure a mastery of the material by all students so they can move successfully through their subsequent math courses. Algebra IA and IB will be worth one credit each and together will satisfy the state requirement for all high school students to successfully complete Algebra.

Algebra I
1 credit
NH Scholars Math
Throughout this course students will develop problem solving strategies in order to think critically. Topics covered include solving linear equations and inequalities, writing and graphing linear functions and inequalities, application of rates and ratios, solving systems of equations, operations on polynomials, solving exponential and quadratic equations and graphing exponential and quadratic functions.
Honors Option available

Algebra IA
1 credit
Throughout this course students will develop problem solving strategies in order to think critically. Topics to be covered include a thorough review of pre-algebra skills, descriptive statistics, solving equations and inequalities, ratios, proportions, graphing and writing linear functions, and modeling linear relationships and applications.

Algebra IB
1 credit
Throughout this course students will develop problem solving strategies in order to think critically. Topics to be covered include a thorough review of Algebra IA skills, solving systems of equations, operations on polynomials, solving exponential and quadratic equations, and graphing exponential and quadratic functions.
Prerequisite: Successful completion of Algebra IA.

Informal Geometry
1 credit
The goal of this course is to introduce students to the concepts of geometry without the formal proof process. Topics include: measurement of length, angles, perimeter, area, volume, classifying polygons, proving and applying congruence, parallel lines, Pythagorean theorem, similarity, proportionality, right triangle trigonometry applications, and inductive reasoning.
Prerequisite: Successful completion of Algebra I or equivalent.

Geometry
1 credit
NH Scholars Math
The goals of this course are to prepare students for further study in mathematics and to increase their problem-solving skills. The major topics that will be covered include: pattern recognition, inductive/deductive reasoning, classifying triangles, proofs, coordinate geometry, parallel lines, and triangle congruence. Semester two is a continuation of the semester one course and includes the following topics: area and volume of two- and three-dimensional objects, symmetry and translations, similarity and proportionality, right triangles, and circles.
Prerequisite: Successful completion of Algebra I.

Honors Geometry
1 credit
NH Scholars Math
Honors Geometry is an intensive, accelerated course intended to prepare students for advanced mathematics courses. Topics that will be covered include: pattern recognition, inductive/deductive reasoning, parallel lines, triangle congruence, area and volume of 2D and 3D objects, symmetry and translations, similarity and proportionality, right triangle, and circles. Honors Geometry will include a deep exploration into proof and coordinate geometry.
Prerequisite: Successful completion of Algebra I and department head recommendation.

Algebra II
1 credit
NH Scholars Math
Algebra II provides a review and extension of the concepts taught in Algebra I. Mathematical modeling and application will be present throughout the course. Topics that will be covered include linear, quadratic, radical, polynomial, exponential, logarithmic, and rational equations and functions.
Prerequisite: Successful completion of Algebra I and Geometry.

Honors Algebra II
1 credit
NH Scholars Math
Honors Algebra II is an intensive, accelerated course intended to prepare students for advanced mathematics courses. A quick review of linear equations, functions, and inequalities will be followed by quadratic, radical, polynomial, exponential, logarithmic, rational, and trigonometric equations and functions.
Prerequisite: Successful completion of Algebra I, Geometry, and department head recommendation.

Algebra II Concepts
1 credit
Algebra II Concepts is designed for students who wish to take an Algebra II course at a non-college prep level. The class will begin with a review of Algebra I fundamentals, and then continue with linear equations and functions, inequalities, quadratic equations and functions, polynomials, rational expression, powers, roots, radicals, fractional exponents, and exponential and logarithmic functions. Student's progress will be measured through formative assignments and summative projects, tests and quizzes.
Prerequisite: Successful completion of Algebra I, Geometry, or equivalents.

Pre-Calculus
1 credit
NH Scholars Math
This course is designed to provide a comprehensive study of functions, which are the basis of calculus and other higher mathematics courses. The students will study the properties and graphs of trigonometric, polynomial, rational, inverse, exponential and logarithmic functions. Time permitting, the students will explore inequalities, polar coordinates, complex numbers, conic sections, vectors, sequences, and series. This course is one of Epping High School's Dual-Enrollment courses; students can earn college credit from Great Bay Community College for successful completion of this course.
Prerequisite: Successful completion of Algebra II

Honors Pre-Calculus
1 credit
NH Scholars Math
Honors Pre-Calculus is an intensive, accelerated course intended to prepare students for Advanced Placement Calculus and other advanced mathematics courses. Topics include linear, quadratic, polynomial and trigonometric functions, limits, differentiation and its applications as well as integration and its applications. Students will be evaluated primarily on summative test and quiz grades. This course is one of Epping High School's Dual-Enrollment courses; students can earn college credit from Great Bay Community College for successful completion of this course.
Prerequisite: Successful completion of Honors Algebra II and department head recommendation.

Survey of Math
½ credit
This semester-long course for seniors reviews the fundamentals of algebra and geometry and their real world applications.
Prerequisite: Successful completion of Geometry

Quantitative Reasoning
1 credit
NH Scholars Math
This course focuses on quantitative thinking and methods with real world applications. Some topics covered are algebraic expressions with applications, graphing and modeling linear, quadratic, polynomial, exponential and logarithmic equations, systems of linear equations and linear programming, simple and compound interest, annuities, probability and measures of central tendency of a data distribution. This course is one of Epping High School's Dual-Enrollment courses; students can earn college credit from Great Bay Community College for successful completion of this course.
Prerequisite: Successful completion of Algebra II

Advanced Placement Calculus AB
1 credit
NH Scholars Math
This is a full year college level introductory course in Calculus. The topics covered prepare students who have already studied college preparatory mathematics to perform acceptably on a college level. Students who take AP Calculus will take the Advanced Placement Exam in the spring. It is possible for them to earn college credit or to be exempted from a college requirement

if a high enough score is achieved. *Prerequisite: Successful completion of Precalculus and department head recommendation*

Advanced Placement Statistics
1 credit
NH Scholars Math
The purpose of the advanced placement course in Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be able to explore data using graphical and numerical techniques to study patterns and identify departures from patterns. They will also collect data according to a well-developed experimental design when a valid conjecture is to be obtained. The second half of the course focuses on selecting appropriate models for statistical inference. The use of probability as a tool is taught throughout the course. A TI-83 calculator is required. Students who take AP Statistics will take the Advanced Placement Exam in the spring. It is possible for them to earn college credit or to be exempted from a college requirement if a high enough score is achieved.
Prerequisite: Concurrent or prior enrollment in Precalculus and department head recommendation

Fundamentals of Math
1 credit
This course is designed to provide the structure and instruction that will increase each student's basic math and critical thinking skills. The intent is to prepare them for higher level math courses and/or post-secondary living. Students will learn how mathematics can be used to help in the decision-making process that is vital to their successful employment and independent living.
Prerequisite: Administrative approval required

MUSIC DEPARTMENT

All music courses meet the Arts graduation requirement as well as the Arts requirement for the NH Scholars Art award

Concert Band
1 credit
The Concert Band welcomes all high school students that play a wind or percussion instrument. The band will concentrate on the performance of high quality concert band literature. All scheduled performances are a required element of this course. Dedication to improvement of skills and musical knowledge is essential to participate in the concert band. Students will be expected to perform assignments regularly with emphasis on rhythm reading and producing an appropriate tone. Individual practice outside of rehearsal is required. Any student with little or no experience is welcome. Please see the band director to get started on an instrument during the summer. *An honors option is available and must be planned with the instructor at the beginning of the school year.*

Intro to Guitar & Ukulele
½ credit
Intro to Guitar & Ukulele provides an introduction to the musical understanding and skills needed to effectively play the stringed instruments. Students will review introductory concepts learned in middle school music and dive deeper into areas such as chords, strumming patterns, tablature, scales, ensembles, standard notations, and music theory. Students will explore music that is of the Western Classical tradition as well as Pop, Rock, Rhythm and Blues, and Contemporary. Students enrolled in this course may use their own instruments or a school-provided beginner instrument.

Chorus
1 credit
The High School Chorus is a performing ensemble of students who want to sing and have fun! Vocal technique, music reading ,rehearsal techniques and performance discipline are developed in depth as members prepare for a variety of performances and festivals throughout the year. Interested students must be able to match pitch, be committed to quality results and possess a willingness to try new things.

Music Theory
½ credit
This course is designed to introduce the serious-minded musician to the basic fundamentals of music and the complexities of analyzing musical elements and structures. Participants in this course must be able to read and understand music notation at an intermediate level. Students will learn to identify key signatures, define intervals, build and identify chord structures, take melodic, rhythmic, and harmonic dictation, develop keyboard familiarity, sight-sing musical notation, and develop musical vocabulary. In addition, students will construct major and minor scales, analyze form, and study tonality and modality. Through the study of elementary harmony, students will analyze and compose four-part harmonization of melodies, using primary and secondary chords, and will progress through learning how to compose music of their own.

Digital Music Production

½ credit

This course is designed to introduce students to digital music creation through the use of Digital Audio Workspaces such as SoundTrap and Abelton. Students will compose, mix, and master their own music. This course uses MIDI keyboards from Native Instruments (A25, M49), Launchpad Pros from Novation, and a variety of other audio hardware for recording vocals and other instruments. This is a heavily project-based course requiring self direction and collaboration.

American Pop Music

½ credit

In this course students listen to, discuss and analyze various popular musical styles and many musicians that have been popular in the United States from 1900 to the present. Students will study blues, hot jazz, swing, be-bop, cool jazz, musical theater, folk, rock and roll, as well as current popular music forms***.***

Music of Video Games

½ credit

In this course students will listen to, discuss, and analyze various musical techniques used in video games. Students will create their own game concepts, characters, and plots. They will also create music and sound effects to accompany the different scenes, characters, and actions. Students will explore sound design, synthesizer programming, digital signal processing (DSP), and sampling techniques, audio recording and manipulation (including dialog production, Foley, and music cue editing and placement), sound layering, and mixing audio elements for stereo and surround playback. This is a project-based course and will require a great deal of creativity and self-direction.

PHYSICAL EDUCATION & HEALTH DEPARTMENT

Physical Education
1 credit
Required Wellness course, recommended Grade 9
This course will introduce the student to the importance of physical activity as a component of a very healthy lifestyle. Students will study and understand the components of a healthy lifestyle and will be encouraged to apply the concepts to their own personal lifestyles. Students will participate in various games and activities that help encourage a physically active lifestyle.

Health Education
½ credit
Required Wellness course, recommended Grade 10
This course is a survey of Health concepts that are in line with the National Health Education Guidelines. The curriculum is written following the New Hampshire Health Education Curriculum Guidelines. The course focuses on coaching students in the exploration of health concepts relating to risk and wellness behaviors. The course also analyzes decision making and the effects these decisions have on health promotion and disease prevention throughout life. The students are encouraged to take personal responsibility for becoming health literate consumers.

Weights and Fitness
½ credit
Weights and Fitness is an introductory course to basic fitness. Muscular strength and endurance will be explored through aerobic activities, and flexibility explored through various stretching techniques and exercises. This course is an elective course offered to students who have completed their PE requirement.
Prerequisite: Successful completion of Physical Education

Lifetime Activities
½ credit
In this course students will focus on learning about and participating in games/activities that are considered to be Lifetime Sports. Lifetime sports are sports that people can play for the duration of their adult life. Games/activities that will be focused on in this class are; Cornhole, Spikeball, Bocce Ball, Badminton, Pickleball, Disc Golf, and others. This class will cover what fitness for an adult who wishes to maintain personal fitness should look like, and we will practice these methods within the class.
Prerequisite: Successful completion of Physical Education. This course meets the additional Wellness requirement for the Class of 2026+.

Team Sports
½ credit
Emphasis in this course will be placed upon various rules and skills in team games such as soccer, flag football, team handball, volleyball, basketball, softball, and other team sports. Focus will include competition through round robin and tournament play. In addition, fitness principles, traditional and nontraditional activities will be incorporated throughout the semester and other activities as deemed appropriate by the Physical Education staff.
Prerequisite: Successful completion of Physical Education. This course meets the additional Wellness requirement for the Class of 2026+.

Wilderness First Responder
½ credit
Wilderness First Responder course is the standard for ski patrollers, camp counselors, trail crews, outdoor leaders, guides, outdoor educators, and anyone who plans to be far off the beaten path, for long periods of time. The WFR offers a comprehensive understanding of how to handle injury and illness in remote settings while focusing on the types of problems that are most common. The course is taught under the recommended curriculum guidelines of the Wilderness Medical Society following the new National EMS Education Standards. The course finishes with both practical and written exams, allowing the student to earn their Wilderness First Responder Certification if they have reached the age of 16 prior to completion of the course.
This course meets the additional Wellness requirement for the Class of 2026+.

EMT Training & Certification
Credit TBD
The Epping High School EMT Program is for individuals interested in becoming certified as a Nationally Registered Emergency Medical Technician (EMT). This course will prepare you to respond to emergencies and provide stabilization, on-scene treatment, and ambulance transport of ill or injured patients. The components that make up the class include pathophysiology, airway management, patient assessment, care of medical and traumatic emergencies, bloodborne pathogens protection, patient extrication and transport, HazMat response, and incident command. **Students must be 17 upon completion of the EMT course in order to sit for both the NH State Practical Exam and the National Computer Based Exam (NREMT). If a student is 17 yrs, licensure is granted upon their 18th birthday. Regardless of age, all requirements of course must be completed, and both exams passed, in order to earn licensure.
This course meets the additional Wellness requirement for the Class of 2026+.

Sports Management
½ credit
This course covers the effective management strategies, knowledge, and responsibilities associated with sports-related careers. Students examine the fundamental components of sports management, including event and facility management, marketing, budgeting, fundraising, leadership principles, communication skills, ethics, sport law, and motivation. Students will also explore career options in the sports industry and the unique skill sets they require.

SCIENCE DEPARTMENT

Biology
1 credit
Required course, recommended Grade 9
NH Scholars Science
The first semester focuses on an in-depth study of cellular processes, genetics, evolution, and the scientific method. The second semester covers classification of organisms, ecology, and an extensive look into each of the Kingdoms of Life. Themes and concepts will reappear throughout the course. There is a strong focus on laboratory procedure and safety during both semesters. Students are required to keep a scientific binder for this course.

Honors Biology
1 credit
NH Scholars Science
The Honors Biology course covers content parallel to the standard Biology course, however students work with each concept at greater depth. Academic rigor and pace of learning is increased and designed for the serious science student. Students will be required to collect, analyze, support and present experimental findings to appropriate audiences following STEM practices. There is a strong focus on reading and analyzing scientific text as well as collaboration on multi-step investigations. Independent research and experimental design are important components of this course. Students are expected to keep current and engage in discussion on topics dealing with bioethics. Course topics of study include: Characteristics of Life, Scientific Method, Cell Biology, DNA and Protein Synthesis, Genetics, Taxonomy, Evolution, Microbiology, and Bioethics.
Prerequisite: Teacher recommendation

Physical Science
Required course, recommended Grade 10
1 credit
The first semester of the course will focus on introductory physics concepts. Core topics include the scientific method, measurement, motion and forces, heat and phase changes, and waves and magnetism. The second semester will focus on introductory chemistry concepts, but will include coverage of earth science and astronomy concepts. The core topics include scientific method, states of matter, atomic models and the periodic table, chemical reactions, acids and bases, Earth's geologic cycles and theories for the creation of the solar system. Students are required to keep a comprehensive 3-ring notebook or binder. Laboratory activities are integrated into the course.
Honors Option available

Natural Resources
1 credit
In this course students will study the many aspects of Earth science and ecology. The majority of the first semester will be spent studying the formation of rocks and minerals, the architecture of the earth, and ocean and atmospheric interactions. Second semester will include ecosystem dynamics, climate change, diminishing and alternative fuel sources, and exotic species case-study.
Prerequisite: Successful completion of Biology.

Chemistry
1 credit
Math Exp.
NH Scholars Science
Chemistry is the central science; the fundamental concepts of chemistry provide a foundation from which the other sciences are understood. Chemistry is also a college preparatory course intended to help students academically prepare for college. Along with the fundamental concepts of general chemistry, problem solving skills and critical thinking skills will be taught. The laboratory component of the course is designed to engage the student in learning chemistry concepts by doing chemistry. Topics covered in this course include: atomic structure, the periodic table, stoichiometry, acids and bases, chemical reactions and applications of chemistry. *Honors Option available*
Prerequisites: Successful completion of Physical Science and concurrent enrollment in Algebra II.

Anatomy and Physiology
1 credit
NH Scholars Science
The anatomy and physiology course is a yearlong science program that will relate structure and function to provide an integrated view of how the human body works. Emphasis will be placed on the integration of systems as they relate to normal health. Laboratory exercises provide firsthand experience with the structures and processes being studied. The areas covered will include medical terminology, basic chemistry, cell and tissue structure, and the eleven systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive). *Honors Option available*
Prerequisite: Successful completion of Biology.

Green Technology
½ credit
This course provides an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field with an emphasis on alternative energy sources and their application. Students will learn and apply scientific principles in the areas of green chemistry, alternative energy, materials innovation, materials substitution, and energy efficiency. Topics include the study of alternative energy (geothermal, wind, solar, biomass [conversions], fission, and fusion), alternative fuels, toxic source reduction, and sustainable energy-efficient architecture and building technology. This course will be research and project based.
Prerequisite: Successful completion of Physical Science.

Astronomy
½ credit
Astronomy is the scientific study of all components in the known universe. This course will cover topics including, but not limited to, the history of astronomy; the solar system; types of celestial bodies; composition of planets, stars, and nebulae; the electromagnetic spectrum; and the basics of the Big Bang theory. Students taking this class should expect to come out with better knowledge of the makeup of our universe and what is really going on when they gaze out into the night sky.
Prerequisite: Successful completion of Physical Science.

Physics
1 credit
Math Exp.
NH Scholars Science
Physics is a fundamental science that studies how matter and energy interact, and it provides a foundation from which the other sciences are understood. This course in physics is a college preparatory course intended to help students academically prepare for college. Along with the fundamental concepts of general physics, problem solving skills and critical thinking skills will be taught. Topics covered in this course include: mechanics, heat, sound, light, electricity & magnetism, atomic & nuclear physics and relativity. *Honors Option available*
Prerequisite: Successful completion of, or concurrent enrollment in Algebra II and successful completion of Physical Science.

AP Chemistry
1 credit
Math Exp.
NH Scholars Science
AP Chemistry is equivalent to a college freshman chemistry course designed for chemistry majors. This course is geared toward highly motivated students with interests in chemical and physical sciences. For some students, this course enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. AP Chemistry builds on concepts covered in Chemistry, using greater detail in concept exploration and laboratory investigation. This course prepares students to take the AP Chemistry exam. AP Chemistry topics include atomic theory, chemical bonding, phases of matter, solutions, types of reactions, equilibrium, reaction kinetics, and thermodynamics.
Prerequisite: Successful completion of Chemistry and Algebra II.

SOCIAL STUDIES DEPARTMENT

US History
1 credit
Required course, recommended Grade 9
NH Scholars Social Studies
This required course is designed to highlight major historical events from pre-colonial times to events of the 20th century. Students will explore these events through themes that will emphasize: conflict and cooperation through wars; civic ideals and practices through the establishment of federalism; social, political and economic change through slavery and the industrial revolution; equality and authority through civil rights; New Hampshire's history; and how science and technology have shaped the United States today. Further development of writing skills and critical thinking will be required to master the competencies of this course. *Honors Option available.*

World Cultures
1 credit
Required course, recommended Grade 10
NH Scholars Social Studies
This required course will provide students with an understanding of the interdependence of the cultural, economic, geographic, religious and political factors that have shaped developed and developing nations in the world. Students will further explore how the interaction of these countries today affects human rights. Proof that the class competencies have been met will be demonstrated by successfully completing reading assignments; participating in class discussions, using research skills, completing projects and passing summative tests and quizzes.
Honors Option available.

Civics
½ credit
Required course, recommended Grade 11
NH Scholars Social Studies
Civics is a required course for graduation. Civics explores the roots of American Democracy, The Constitution, The Bill of Rights, Civil Liberties, Federalism, State and Local Powers. Much attention will be given to the purpose and function of the three branches of Government. Throughout the course we will focus on how each citizen can play an active role in government and society. Each student will be expected to demonstrate competency in the Work Study Practice Model. Those competencies include; Collaboration, Communication, Contribution, Evaluation, Learning, Producing, Technology Skills and Thinking.
Honors Option available.

Economics
½ credit
Required course, recommended Grade 11
NH Scholars Social Studies
This course is designed to provide each student with an understanding of economic principles, systems and activities in order to participate as a citizen in the Free Enterprise System. Emphasis will be placed on Economic Fundamentals, How Markets Work, Economic Institutions, Economics of the Public Sector, Managing and Measuring the Economy and Globalization. Personal Finance will also be addressed.
Honors Option available.

Social Studies Electives

20th Century to Modern World History
½ credit
NH Scholars Social Studies
This course will emphasize 20th Century history starting with the industrial revolution through America's world wars to help students better understand current events. The main goal of the course is to have students develop high levels of competency in research and reasoning skills through a variety of tasks including simulations, research, debate, and writing assignments.
Prerequisite: Successful completion of US History

Archeology
½ credit
NH Scholars Social Studies
Have you ever wondered if Indiana Jones is a good archeologist? It's time to find out! What does an archeologist do? Learn about the basics of archeology, ethical issues within archeology, and how the media portrays archeology.

American Studies: Pop Culture
½ credit
NH Scholars Social Studies
How has American popular culture changed over time? You will be looking at different decades, from the 1940's to present, and examine fads, major events that influenced Americans, television, movies, radio, literature, and advertising. In this course, students will be focusing on communication skills and analysis skills.

Cold War: A Global History
½ credit
NH Scholars Social Studies
This course is an exploration of the Cold War analyzing its political and military history as well as the social and cultural impact of the ever increasing geopolitical, interdependent world. It is more important than ever to study the ties between the post-World War II landscape and today's international relations. We will start with decolonization and post-colonialism and begin to examine how the conflict developed, grew and then came to a rather abrupt end in the late 1980s, early 1990s.
Prerequisite: Successful completion of US History

Criminology
½ credit
NH Scholars Social Studies
In this course students will examine how societies shape and control the behavior of their peoples. Students will explore the connections between culture, law, power and equity as it pertains to social order. The development of a justice system and its components (enforcement, ruling and corrections) will be analyzed. There will be a direct focus on the complex factors that play a role in crime here in America.
Prerequisite: Grades 11-12 due to mature content or with permission of instructor.

Intro to Philosophy
½ credit
NH Scholars Social Studies
In this course, you will be challenged to push beyond your comfort in the known, and consider the grander implications of the unknown. We will discuss free will, thought, consciousness, existence, morality, and other pressing topics of philosophical debate. This course will be a discussion based approach to a nonsecular exploration of the major introductory topics of philosophy.

Legal Studies
½ credit
NH Scholars Social Studies
This course teaches some of the basic characteristics of the American legal system: rights of private property, freedom of trade, the dignity and worth of the individual. Students become aware of their legal obligations and rights in order to avoid future legal difficulties. Actual cases are studied and interpreted. There will be a required field trip to the Rockingham County Courthouse and the House of Corrections.
Prerequisite: Successful completion of, or current enrollment in Civics, or with permission of department head.

Psychology
½ credit
NH Scholars Social Studies
This is a college preparatory course. In this course, you will receive a broad introduction to the science of psychology: from the history of the field and its major advances to the latest research on topics such as perception, memory, intelligence, morality, sexuality, mental illness, language, development, and creativity. This course is designed to give you a basic understanding of the many different perspectives from which psychologists try to understand human behavior. This is a higher-level course that will involve unit tests, projects and a deeper understanding of the content.
Prerequisite: Successful completion of English II.

Advanced Placement US History
1 credit
NH Scholars Social Studies
This is a college-level course that, in semester one, covers an in-depth survey of American history from pre-colonial times through Reconstruction and the West. Students will be required to read selected books and pieces of literature in addition to the text. Students will focus on essay writing, inquiry-based projects, examination of primary documents, and research. During semester two, the course covers an in-depth survey of American history from the Gilded Age through present day. Students will be required to read selected books and pieces of literature in addition to the text. Student work will focus on essay writing, inquiry based projects, examination of primary documents, and research. Students taking an AP course must have a high level of motivation and exemplary work habits. This course will make demands on students equivalent to those made on students in an introductory level college course. Students who take AP US History will take the Advanced Placement Exam in the spring. It is possible for them to earn college credit or to be exempted from a college requirement if a high enough score is achieved.
Prerequisite: Successful completion of US History, department head recommendation, and summer project completion.

Advanced Placement World History
1 credit
NH Scholars Social Studies
In AP World History students investigate significant events, individuals, developments, and processes from 1200 to the present. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Students taking an AP course must have a high level of motivation and exemplary work habits. This course will make demands on students equivalent to those made on students in an introductory level college course.
Prerequisite: Successful completion of World Cultures, department head recommendation, and summer project completion.

TECHNICAL EDUCATION DEPARTMENT

Woodworking I
½ credit
Topics in Woodworking I include basic and advanced woodworking skills and the use of hand tools, power tools, and machines. Problem-solving activities and drafting are also components of the class. Students will be expected to meet all safety requirements and demonstrate responsible behavior.

Woodworking II
½ credit
The course will focus on furniture and cabinet making using the skills acquired in Woodworking I. Students will learn joinery techniques and finishing techniques during this course.
Prerequisite: Woodworking I

Computer Aided Drafting (CAD)
½ credit
This class will focus on basic drafting styles on a computer. This course will enable the first time user to learn geometric construction, dimensioning, tolerant and drawing layout as well as plotting drawings. A second semester of this course can be available as an independent study to students who want to focus on reinforcing skills learned in CAD I and developing an increased expertise. *This course does not meet the Computer Education graduation requirement.*

Engineering & Advanced Manufacturing I
½ credit
A course in the study of industrial robotics and rapid prototyping in computer aided manufacturing (CAM). Students will learn how robotic CNC machines and 3D printers operate and allow for faster and more cost effective machining. This course will cover robotic control systems, positioning, linear motion controls, programming languages, maintenance, and design and machining. Students will use 3D printers along with other CNC machines to create and proof their designs and prototypes. These projects will include integration with other areas of study such as Marketing/Cost Accounting and Multimedia Studies. Projects in this course will be based on the 21st century skills, STEM, and ITEEA Technology and Engineering standards. *This course does not meet the Computer Education graduation requirement.*

Engineering & Advanced Manufacturing II
½ credit
A level 2 course for students who want to expand their knowledge and expertise in industrial robotics and rapid prototyping in CAM. This course will focus on student design of functional objects and prototypes. Students will use 3D printers along with other CNC machines to create and proof their designs and prototypes. These projects will be a continuation of the skill set acquired in Engineering I. Projects will include integration with other areas of study such as Marketing/Cost Accounting and Multimedia Studies. Projects in this course will be based on the 21st century skills, STEM, and ITEEA Technology and Engineering standards. *This course does not meet the Computer Education graduation requirement.*
Prerequisite: Successful completion of Engineering & Adv. Manufacturing I.

WORLD LANGUAGE DEPARTMENT

It is strongly recommended that all students interested in taking a world language begin their Year I courses by 9th grade, 10th at the latest. *All World Language courses listed below meet the **NH Scholars** requirement for World Language.*

French

All students will be expected to be active participants in the classroom. Students will be required, on several occasions, to present information in front of the classroom, perform in skits, and engage in conversation activities in groups or with the instructor. Students will also be required to complete writing prompts and essays to assess their mastery of written communication and grammar in French.

French I

1 credit

This is an introductory course designed to develop the basic skills of listening, speaking, reading, and writing French. Although the use of these skills will be limited, at the conclusion of the course students should be able to carry on a short conversation with a native speaker in the present tense about themselves, their family, and their community. Students should also be able to talk briefly in English about several cultural differences and similarities between the American culture and that of one other Francophone country.

French II

1 credit

This course is designed to continue the development of the four basic skills introduced in French I. Although the use of these skills will still be limited, at the conclusion of the course students should be able to carry on a short conversation with a native speaker in the present and past tenses about themselves, their family, and their community. The conversation should be sustained to reflect the acquisition of additional vocabulary. Students should also be able to talk briefly in English about Paris and one other French city.

Prerequisite: Successful completion of French I.

French III

1 credit

This course concentrates on reinforcing the basic skills as well as developing the student's speaking and reading ability. Students should be able to carry on a more extended conversation with a native speaker in the indicative, imperative, and subjunctive moods of the various tenses (present, past, future, conditional, and imperfect). A conversation should be able to be sustained and should include more complex discussions of issues concerning daily life and various Francophone cultures.

Prerequisite: Successful completion of French II.

French IV- Honors

1 credit

See French V – Honors Description Below.

Prerequisite: Successful completion of French III and instructor approval.

French V - Honors
1 credit
Since levels IV and V are a combined class and taught together, this curriculum has been structured in a two year alternating rotation. This program aims at building students proficiency in all four language skills (reading, writing, listening, and speaking). It also stresses the enhancement of their knowledge of the multi-cultural facets of the French speaking world. Students are invited on a fascinating journey through the Francophone world via engaging readings, thought provoking activities, authentic listening passages, French feature length films, and internet activities. This program is completed by a number of thematic 'modules' and a variety of literary documents, allowing students to obtain a diversified view of French history, literature, and fine arts.
Prerequisite: Successful completion of French IV and instructor approval.

Spanish

All students will be expected to be active participants in the classroom. Students will be required, on several occasions, to present information in front of the classroom, perform in skits, and engage in conversation activities in groups or with the instructor. Students will also be required to complete writing prompts and essays to assess their mastery of written communication and grammar in Spanish.

Spanish I
1 credit
This is an introductory course designed to develop the basic skills of listening, speaking, reading, and writing Spanish. Although the use of these skills will be limited, at the conclusion of the course students should be able to carry on a short conversation describing themselves, their family, and their community. Students should also be able to talk briefly in English about several cultural differences and similarities between the American culture and that of one other Spanish country.

Spanish II
1 credit
This course continues the development and improvement of the basic skills with increased emphasis on speaking, reading, and writing. Students are introduced to the past tense of verbs, and should be able to describe what they, and others, did in the past. Students will also be introduced to the three main native pre-Columbian cultures: Aztecs, Incas, and Mayas.
Prerequisite: Successful completion of Spanish I.

Spanish III
1 credit
While the basic skills are always reinforced, students will be required to summarize Spanish Language News Articles as part of a Current Events/Writing Prompt on a regular basis. Students will be introduced to verb tenses beyond the Present and Past Tenses in order to be able to describe future plans and what events took place during another event. Students will analyze the evolution of Mexico City from being the capital of the Aztec empire to becoming one of the largest cities in the world. Students will also compare the Spanish Civil War to that of the American Civil War.
Prerequisite: Successful completion of Spanish II.

Spanish IV Honors
1 credit
This course reinforces the content learned in previous levels, while bridging the gap between communication and culture through the use of 'culture and reading modules' in Spanish. Students

will also be exposed to essays, presentations, and dictation exercises on a regular basis. Students will be introduced to the Subjunctive Tense, and at the end of the course should be able to communicate (verbal and written) by synthesizing all the content learned throughout their Spanish career. On occasion students will be exposed to college level material, as an introduction to college level Spanish.
Prerequisite: Successful completion of Spanish III and instructor approval.

Spanish V Honors
1 credit
This culture and literature intensive course will expose students to the history of Spanish literature and culture. Students will be exposed to Spanish Language novels such as *El Cid, La Celestina, Lazarillo de Tormes, Don Quijote,* and other works from Spanish speaking authors. Opposite from Spanish IV, students will receive 'grammar and communication modules' to reinforce communicative skills learned in previous sections and learn new concepts. On occasion students will be exposed to college level material as an introduction to college level Spanish.
Prerequisite: Successful completion of Spanish IV and instructor approval.

GENERAL ELECTIVES

Life-Centered Education I & II
1 credit
This course is designed to provide the critical skills and outcomes for high school students to make a successful transition from high school to work and the community. The course will focus on four areas: becoming an active member of the community, living a safe and healthy lifestyle, developing a career plan and developing money management skills. The instructional and training activities will promote the skills students need to succeed at school, at home, and in the community.
Permission of the Special Education Building Coordinator is required.

Student Aide
¼ credit per semester
Grade 11 & 12 Only
The Student Aide program is designed to allow students to learn procedures and be of service to the various offices and teachers that may need assistance during the school day. The student will be expected to help with whatever duties (technical or clerical) that may be required in that area. Areas may include, but are not limited to the school office, other offices, and the media center. Students who wish to take this course must have an interview with the potential supervisor and an administrator. The supervisor will then work with the student to set up clearly defined goals and objectives. Students will be required to write a reflection paper to earn credit. No student may be an aide for more than one period per semester. No teacher or office may have more than one aide in their classroom/office at a time.
This class is graded as Pass/Fail and is not a qualifying course for athletic and extracurricular eligibility.

SEACOAST SCHOOL OF TECHNOLOGY

Course Descriptions 2022-2023

FIRST-YEAR PROGRAMS

Animal & Plant Science I - *NH Scholars STEM & Lab Science*

Do you love animals? Making things grow? Learn to expertly care for living things and prepare yourself for a career as a veterinarian, vet tech, barn/farm/greenhouse manager and many other careers working with animals and plants. You'll learn to care for and handle companion animals, recognize behavior, and begin on the road to veterinary care for both large and small animals. In addition, you will study aquariums allowing you to experience raising fish for fun or sale and aquaculture allowing you to gain hands-on experience raising food for consumption.
[Prerequisite – Biology]

Automotive Technologies I - *NH Scholars STEM*

Calling all gearheads! Using Snap-on hand tools and the same computer diagnostic equipment found in well-equipped dealerships, learn bumper-to-bumper automotive systems and their repair. Hone your skills by working on customer and donated vehicles in a live shop that includes 13 bays, a parts room, 8 lifts, an in-ground alignment system and much more. Students have the opportunity to interview for internships at local dealerships or independent facilities. This program is certified through the National Automotive Technicians Education Foundation (NATEF).

Biomedical Science & Technology I - *NH Scholars STEM & Lab Science – Dual Enrollment*

Working in a state-of-the-art lab, you will be on the cutting edge of science studying molecular genetics and genetic engineering, cancer biology, microbiology, immunology, bioinformatics, DNA sequencing, environmental and marine science and more. You will gain techniques and knowledge that will prepare you to pursue careers in medicine, genetics, pathology, forensics, molecular biology and many other science-related fields.

Building Construction Technologies I - *NH Scholars STEM*

Are you the type of person who takes pride in being able to create things with your own two hands? Learn basic skills in carpentry, hand and power tool safety, framing, remodeling, materials usage, green building and much more. You'll perfect your skills by working on a variety of real construction and renovation projects in our local community, and by the end of the year you will have the know-how to make a building weathertight.

Careers in Education I - *NH Scholars STEM & Social Science – Dual Enrollment*

A program for those who want to work in a variety of educational roles ranging from pre-kindergarten, elementary, middle/high school, or even adult-ed teacher, to occupational/physical/speech & language therapist, school counselor, child psychologist, special educator, social worker, administrator and more. This writing-intensive program is the first step toward a career in the field of education. In addition to student-teaching in the Wright Start Preschool, job shadows, and guest speakers from a variety of education-related professions, you will also study theories of development and learning, foundations of education, classroom management, lesson planning and best instructional practices.

Computer Science I - *NH Scholars STEM & Lab Science – Dual Enrollment*

(2 semester-based courses)

1. Introduction to Computer Science

Utilizing the Python programming language, you will learn what it takes to write your own computer programs. With an emphasis on computational thinking and problem solving, develop the skills to find novel methods of finding problem solutions. This course will form the foundation for all future study in the field of Computer Science. *[Offered semester 1]*
[Prerequisite – Algebra I with grade of "MC" or better]

2. C#

This course will provide you with an understanding of structured, procedural and event-driven programming. Develop techniques for problem solving through the application of a variety of programming techniques and gain experience in program planning, design and coding as you complete lab work and assignments. Plan, design, code and test a variety of computer programs including games, simulations and productivity applications. You will learn to use the Visual C# .NET programming language and integrated development environment. *[Offered semester 2]*
[Prerequisite – Introduction to Computer Science]

Culinary Arts I - *NH Scholars STEM & Art*

If you're interested in learning the introductory skills for a career in the world of Culinary Arts and Restaurant Management, look no further! With daily hands-on activities and training, you'll soon be able to produce perfect knife cuts and cook restaurant quality meals from scratch. You will learn the importance of food basics, savory cooking and baking, knife skills, sanitation, nutrition and developing your palate while exploring regional cuisines. This course will also emphasize the appropriate standard of behavior and uniform that is set by culinary professionals.

Digital Media Arts I - *NH Scholars STEM & Art – Dual Enrollment*

(2 semester-based courses)

1. Graphic Design

The art class of the new millennium… If you're an artist and you want to harness the power of creativity, then this course is for you. Backed with a strong influence from the fine arts, this course

focuses on the concepts of good design and uses computer software such as Adobe Photoshop, Illustrator and InDesign to foster student creativity. *[Offered semester 1]*

2. Animation

Breathe life into your artwork and make your creations come alive! Utilizing computer programs from Autodesk and Adobe, you will learn how to transform two-dimensional artwork into three-dimensional, digitally-animated models. *[Offered semester 2]*

Health Science Technologies I - *NH Scholars STEM & Lab Science – Dual Enrollment*

If you're thinking about any career in the health field, like becoming a doctor, nurse, physical therapist, dentist or even an EMT, then this course is for you. Learn about the human body and help people get and stay healthy. You will earn your First Aid certification while exploring human anatomy and physiology, medical terminology, safety, and legal and ethical issues within the health fields.
[Prerequisite – Biology]

Marketing Technologies I - *NH Scholars STEM & Social Science – Dual Enrollment*

Want to be your own boss? Marketing Technologies introduces the processes and strategies involved in transferring business products or services to a consumer. Through interactive discussions and projects, the course's main focus is on analyzing the marketing mix, its interrelationships and how it is used in the marketing process. This course has a strong emphasis on business conduct, speaking and presentation skills. Some topics of study are: entrepreneurship, management, sport and entertainment marketing, fashion merchandising, e-commerce, hospitality and tourism and international studies. You'll develop your own business and learn how to market it, as well as operate the Upper Deck, SST's school store.

Pre-Engineering I - *NH Scholars STEM & Lab Science – Dual Enrollment*

(2 semester-based courses)

1. Introduction to Engineering Design

Want to find out how to turn your innovative ideas into reality? Engineers are involved in everything that has ever been designed, built or manufactured. In this course, you will learn about the varied roles engineers play in our society, discover new career paths and possibilities, and develop engineering knowledge and skills, such as creating models and prototypes (physical and virtual).
[Offered semester 1] [Prerequisite – Algebra I]

2. Principles of Engineering

Make the leap from dreamer to doer! Engineers serve society by using engineering principles to develop solutions to technical problems and explore multiple manufacturing processes and technology systems. Come and participate in compelling, real-world challenges that will help you become a better collaborator and thinker. *[Offered semester 2] [Prerequisite – Algebra I]*

SST Welding Technologies I - *NH Scholars STEM*

If you're scared of melting metal, flying sparks, or holding torches in your hands that are hotter than the surface of the sun, then Welding Technologies is probably not for you. Still interested? You'll learn the basic techniques of STICK, MIG, TIG, plasma, brazing, soldering, blueprint reading and electricity. This program is ideal for students interested in the metal trades including welding and machining, as well as artists who want to work with metal.

SECOND-YEAR PROGRAMS

Animal & Plant Science II - *NH Scholars STEM & Lab Science – Dual Enrollment*
Continue to build on your experience, knowledge and hands-on skills. You'll spend several months at a local horse barn studying equine science, learn more about greenhouse management, sustainable food production, aquaponics and hydroponics, landscape and floral design, animal nutrition and reproduction, and complete a week-long internship in an area of personal interest. Participation and competition in FFA events is strongly encouraged. *[Prerequisite – Animal & Plant Science I]*

Automotive Technologies II - *NH Scholars STEM – Dual Enrollment* **Math Exp.**
Continue your automotive training by working in our live car repair and state inspection facility. Perform more complex repairs and tasks ranging from light mechanical, routine maintenance and parts ordering. You'll complete units on engine performance and diagnostics, suspension and steering, four-wheel alignment, earn your ASE Maintenance and Light Repair certification and position yourself for a career in the automotive industry. *[Prerequisite – Automotive Technologies I]*

Biomedical Science & Technology II - *NH Scholars STEM & Lab Science – Dual Enrollment* **Math Exp.**
This capstone course is an in-depth exploration of emerging technologies and innovations within the scientific community. You will explore current biotechnological applications in medicine, agriculture, forensics and the environment. Topics include gene modification, protein microarrays, directed mutagenesis, bioinformatics, DNA sequencing and more. You will also have the opportunity to participate in advanced internships during the school year and perform original research.
[Prerequisite – Biomedical Science & Technology I]

Building Construction Technologies II - *NH Scholars STEM* **Math Exp.**
Continue to polish your technical building skills and examine topics such as energy efficiency, interior work and trim and blueprint reading. You'll put your knowledge to good use by building structures in the community such as homes, garages, sheds, additions and more. By the time you complete this program, you will be capable of doing all interior and exterior carpentry work on building projects large and small, and be ready to enter leadership programs for construction project managers.
[*Prerequisite – Building Construction Technologies I]*

Careers in Education II - *NH Scholars STEM & Social Science – Dual Enrollment*
Continue to learn the craft of educating others. Coursework includes classroom management, curriculum development, differentiated instruction, best instructional practices and special education. Alongside advanced classroom instruction and teaching in the Wright Start Preschool, you will gain real-world experience in your preferred concentration area and create a professional teaching portfolio tailored to your specific goals. Internships are available for preschool, elementary, middle and high school, art/music/physical education, special education, physical/occupational/speech & language therapy and early childhood education administration. This course is an excellent opportunity to continue exploring education-related professions and decide which career path to pursue in college.
[Prerequisite – Careers in Education I]

Computer Science II - *NH Scholars STEM & Lab Science – Dual Enrollment* **Math Exp.**

(2 semester-based courses)

1. Java

The Java programming language is the major force behind the World Wide Web and can be found running on over 3 billion computational devices on the planet. The purpose of this course is to provide a solid foundation in the Java programming language, as well as further refine your knowledge of object-oriented design. Program planning, object-oriented design and Java language syntax will be emphasized. *[Offered Semester 1]*
[Prerequisite – Introduction to Computer Science]

2. C++

C++ is the industrial heart of the computer software industry and is the primary development tool used to create major applications used by millions of people every day in business productivity, as well as video games. This course will introduce you to the fundamentals of structured programming, the procedural aspects of the C++ programming language, object-oriented design and implementation, as well as an introduction to basic data structures. You will create programs to demonstrate the topics of program control, functions, arrays, pointers, classes and objects. Visual C++ will be used as the primary development tool; however, other environments may also be utilized. Emphasis will be placed on the creation of platform-independent applications in order for you to become familiar with the core features of the C++ language. *[Offered Semester 2]*
[Prerequisite – Introduction to Computer Science]

Culinary Arts II - *NH Scholars STEM & Art – Dual Enrollment* **Math Exp.**

Expand on your cooking and baking skills while exploring the cooking techniques and cultural aspects of global cuisines! You will learn advanced techniques, such as smoking, pickling and meat fabrication, in addition to the managerial side of a restaurant - from food cost to purchasing, ServSafe to menu writing and event planning to training. *[Prerequisite – Culinary Arts I]*

Digital Media Arts II - *NH Scholars STEM & Art – Dual Enrollment*

(2 semester-based courses)

1. Web Design

Design your own web pages using the same techniques as professional graphic designers and web developers. Using Cascading Style Sheets (CSS) and the Adobe Design Premium Suite, you'll learn best practices in designing for the web and sharpen your skills by creating multiple web pages on topics of your choice. *[Offered semester 1]*

2. Video Production

Learn how to operate all of the equipment in a cutting-edge video production studio that includes a green screen, high definition cameras, sound and lighting control room and much more. You will film, edit, and produce videos for both personal and commercial purposes using the editing software Premiere and After Effects. *[Offered semester 2]*

Health Science Technologies II - *NH Scholars STEM & Lab Science – Dual Enrollment*

Dive deeper into the complexities of the human body by completing units on CPR and the cardiorespiratory, gastrointestinal, reproductive, endocrine and nervous systems. In addition to classroom and lab work on the SST campus, you will gain real-world experience through a ten-week

internship at a local healthcare facility. Additionally, select students will have the opportunity to earn their Licensed Nursing Assistant (LNA) Certificate. *[Prerequisite – Health Science Technologies I]*

Marketing Technologies II - *NH Scholars STEM & Social Science – Dual Enrollment*

You'll complete an individualized curriculum that is tailored to your personal business interests and aspirations. Recent areas of specialization include business management, sports and entertainment management, hospitality, fashion, event planning, advertising, entrepreneurship, business law, international business and finance. You'll also work on real-life projects in the community, including planning and running the Small Business Showcase with the Exeter Area and Hampton Area Chambers of Commerce. *[Prerequisite- Marketing Technologies I]*

Pre-Engineering II - *NH Scholars STEM & Lab Science – Dual Enrollment* **Math Exp.**

(2 semester-based courses)

1. Digital Electronics

Investigate how machines think and work! Using applied logic, you will learn about electronics and digital systems, explore engineering design, build circuits and develop electronics troubleshooting techniques. *[Offered semester 1]*
[Prerequisite – Either Introduction to Engineering Design or Principles of Engineering]

2. Civil Engineering & Architecture

Study the way that man-made structures such as buildings, dams, bridges and roads affect our environment and the way we live. Through a series of hands-on projects and guest speakers with expertise in a variety of topics, you will learn about the complex infrastructure that makes society work. *[Offered semester 2]*
[Prerequisite – Either Introduction to Engineering Design or Principles of Engineering]

Welding Technologies II - *NH Scholars STEM – Dual Enrollment* **Math Exp.**

Enhance your welding skills by working with different alloys like aluminum and stainless steel, learning different techniques and welding positions, performing actual jobs of metal fabrication, manufacturing, repair and CNC Plasma. At the completion of this course, you will have earned your OSHA (Occupational Safety & Health) training certificate and have enough skills and experience to take your certification tests in SMAW (STICK), GMAW (MIG) and GTAW (TIG) welding.
[Prerequisite - Welding Technologies I]