Newmarket High School

Program of Studies

2023 - 2024

School Board Approved: 1/5/2023

TABLE OF CONTENTS

FOREWORD

Greetings High School Students:

The information contained in the 2023-2024 Program of Studies is important and should be examined carefully as you plan your course of studies for the upcoming school year and beyond. Newmarket High School offers a rich selection of core and elective programming, designed to prepare you for success beyond high school. Classes are offered at different levels, ensuring that every student has access to programs at an appropriate level of challenge. Courses of study are outlined by academic and elective departments, including those at the Seacoast School of Technology (SST), and virtual instruction through the Virtual Learning Academy Charter School (VLACS). Other possibilities for credit go beyond traditional offerings, such as Extended Learning Opportunities (ELO), internships, college coursework and employment exploration. Each of these provide options for you to personalize experiences that can enrich and enhance your education.

I encourage you to invest in yourself by taking time to review all academic choices available to you. Teachers, counselors, and your parents should be consulted as you consider your selections, in conjunction with your goals and objectives. Thoughtful planning and informed decision-making will help you to make the most of your high school experience!

Sincerely,

Andrew Korman, PhD
Principal

CORE VALUES, BELIEFS AND LEARNING EXPECTATIONS

The staff at Newmarket Jr./Sr. High School, in partnership with students, family, and community, believe in providing each student with the opportunity to develop to his or her fullest potential in an academically rigorous, supportive, and safe environment.

PROFILE OF A NEWMARKET JR./SR. HIGH SCHOOL GRADUATE

Graduates of Newmarket Jr./Sr. High School will:

- Think creatively and critically to identify and solve a variety of complex problems
- Use technology as a tool to research, organize, evaluate, and communicate information
- Work respectfully with diverse teams, share responsibility for collaborative work, and value the individual contributions made by each team member
- Communicate effectively using oral, written, and interpersonal skills in a variety of forms and contexts
- Demonstrate knowledge and understanding of the complex issues that impact the global community such as economics, advances in technology and environmental issues
- Develop a realistic career plan for post-secondary education, skills training and/or entering the workforce

SPECIAL EDUCATION

In our school, students with Individualized Educational Plans (IEPs) receive special education services in multiple ways.

Whenever possible, students with IEPs participate in general education classes and receive their services within that setting. For students whose needs cannot be met within the general education setting, NHS provides resource supports, including Resource Programs with curricula that are modified to meet the unique needs and strengths of each student participating. Additional opportunities to meet student needs include Reading/Word Study courses and a Study Skills Lab. Students earn credit for successful completion of these courses. Students without IEPs may be eligible to enroll in these courses, pending approval of the Assistant Principal for Student Services.

Students who receive Special Education services may earn either a Newmarket High School diploma or a Certificate of Attendance, depending on courses completed and credits earned.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

Newmarket School District greatly values the diversity of languages spoken by our students. In addition, we stand firm in our commitment to ensure that every student has access to a full high school curriculum, regardless of their English language abilities.

Upon enrollment, all students complete a Home Language Survey, which helps us identify students who have experience with languages other than, or in addition to, English. Those students will then participate in a screening assessment to determine eligibility for ESOL services, which we tailor to meet the needs of each individual student.

Students in the ESOL program participate in ACCESS and/or MODEL, state-required assessments, each year. In accordance with state regulations, students who meet proficiency criteria are partially exited from the ESOL program, and we monitor their academic performance for two years. Once four (4) years have passed, if the student continues to perform well in English language courses, we exit the student fully from the ESOL program.

ALTERNATIVE LEARNING PLANS

The purposes of alternative learning plans are to provide students with educational experiences that are meaningful, to provide students with opportunities to explore and achieve at high levels, and to meet State and District requirements to obtain a high school diploma or its equivalent. In order to maximize student achievement, this policy permits students to employ alternative learning plans that fulfill or exceed the expectations set forth by State minimum standards and applicable Board policy.

Alternative learning plans may include extended learning opportunities taken for credit or taken to supplement regular academic courses. If the alternative learning plan includes extended learning opportunities taken for credit, the provisions of *Policies IMBC, Alternative Credit Options* and *IHBH, Extended Learning Opportunities*, will apply. The granting of credit shall be based on a student's mastery of course competencies, as defined by *Policies ILBA, Assessment of Educational Programs* and *ILBAA, High School Competency Assessments*. Highly Qualified Teachers and the Principal must authorize the granting of credit for learning accomplished through extended learning opportunities. If credit is not granted, the extended learning opportunity may be used to fulfill prerequisite requirements for other courses. Please see your school counselor for more information.

HIGH SCHOOL GRADUATION REQUIREMENTS

The table below outlines the credits required to graduate from NJSHS, as approved by the Newmarket School Board. All credits must be earned in Grades 9-12. Please note that, generally, students may not take the same course more than once; however, the Principal may grant an exception at his/her discretion.

Subject	**Credits**	**Specifics**
English	4.0	English 9 / English 10 / English 11 / English 12
Mathematics	*4.0 See specifics	Any combination of math courses. Must include a full year equivalent of Algebra I. * Per NH Minimum Standards, students must have exposure to mathematics concepts & competencies in **all years** they attend high school.
Science	3.0	Physical Science, Biology, Chemistry
Social Studies	3.0	Foundations of U.S. History, Western Civilization or Geography, Civics (0.5 credit) & Economics (0.5 credit)
Technology Literacy	0.5	Usually taken in Grade 9 or 10
Fine Arts	0.5	Any course in Fine Arts, Industrial Technology, or Digital Graphics
Health	0.5	Usually taken in Grade 9 or 10
Physical Education	1.0	Usually taken in Grade 9 or 10
Career Development	0.25	Completed over four years;facilitated by classroom teacher
Electives	11.5	Any subject area, once graduation requirement in that area has been met
Total credits required	**28.25**	

HIGH SCHOOL COURSE REQUIREMENTS AND RECOMMENDATIONS BY YEAR

Grade 9

Mandatory Courses:

English 9	1.0
Math	1.0
Physical Science	1.0
Foundations U.S. History	1.0
Total Credits	**4.0**

Additional Requirements:

Health	0.5
Physical Education	1.0
Technology Literacy	0.5
Fine and Performing Arts	0.5
Electives (*to fill empty blocks)*	1.5
Total Additional Credits	**4.0**

Grade 10

Mandatory Courses:

English 10	1.0
Math	1.0
Biology	1.0
Western Civilization or Geography	1.0
Total Credits	**4.0**

Additional Requirements:

Electives (*to fill empty blocks)*	4.0
Total additional credits	**4.0**

Sophomores: Be sure to take all non-core courses to meet graduation requirements!

Grade 11

Mandatory Courses:

English 11	1.0
Math	1.0
Chemistry (Grades 11/12)	1.0
Total Credits	**3.0**

Additional Requirements:

Civics	0.5
Economics	0.5
Electives (*to fill empty blocks — may now include SST and VLACS)*	3.0
Total Additional Credits	**4.0**

Grade 12

Mandatory Courses:

English 12	1.0
Math or Math exposure **see page 19 for options*	1.0
Total Credits	**2.0**

Additional Requirements:

Electives (*to fill empty blocks — may now include SST and VLACS)* Minimum number of credits 5.0	5.0-6.0
Total credits required over 4 years	**28.25**

SCHOOL-TO-CAREER PARTNERSHIP AND EXTENDED LEARNING OPPORTUNITIES

Students may participate in several programs that help students contribute to the community while learning to use their education in practical ways. These opportunities are called "School to Career." They include:

Extended Learning Opportunities (ELOs): The New Hampshire Department of Education defines extended learning as, "the primary acquisition of knowledge and skills through instruction or study outside of the traditional classroom methodology, including, but not limited to: independent study; private instruction; performing groups; internships; community service; apprenticeships; and, online courses." ELOs in Newmarket must be pre-approved by administration, have a faculty sponsor, and meet the competency requirements of the course/material being studied. ELOs can be used in any content area.

Community Service: Work in the community helping other people, and, at the same time, earn school credit toward graduation, possibly for credit; requires an application and administration approval. Students may perform community service for high school credit with an application. Types of community service may include volunteering at hospitals, nursing homes, daycare centers, nursery schools, veterinary clinics, town offices, food pantries, and the Salvation Army. Credit is awarded based upon the number of hours of service. Students can earn one-quarter (.25) credit upon completion of 45 hours of documented community service. A maximum of one credit can be earned during high school (upon completion of 180 hours of community service).

Job Shadowing: Explore career choices through observing people at work in a variety of jobs in the community, for several hours or a day at a time.

Internships: Spend several days or weeks at worksites related to career choices, possibly for credit; requires an application and administration approval.

Cooperative Education: Combine classroom instruction and paid or non-paid work experience related to career choice.

Independent Study: Learn independently with less supervision and direction than a typical class. Requires an application and administration approval. Students often take independent studies to learn about a specific subject not taught in their high school, or a subject that they want to further their knowledge about. The student must choose a focus, as well as request an advisor. They must fill out the Independent Study paper- work and have it approved by a parent, administrator and School Counselor, before adding it to their sched- ule and beginning the Independent Study.

Post-Secondary School and College Agreements: Take a course at a technical school or college while still studying as a student at Newmarket Jr./Sr. High School.

Apprenticeships: Work as a registered youth apprentice at a trade or technical school worksite.

Class - Aide
Are you an organized, ambitious and self directed student who doesn't mind getting their hands dirty? Are you thinking about becoming a teacher someday? This unique opportunity allows a student to step into a leadership role by providing direct assistance to a classroom teacher! Responsible students who want to help organize classroom supplies and materials, participate in community service events, communicate new ideas and offer assistance to fellow classmates, please see your classroom teacher.
Prerequisite: Permission of teacher/see teacher.

CAREER DEVELOPMENT
GRADUATION REQUIREMENT

All students must fulfill a career development requirement by the end of 12th grade. This requirement can include a "collection" of the following tasks:

- Complete a Career Key in Naviance (REQ)
- Complete Strength Explorer junior year in Naviance (REQ)
- Identify at least one Career Cluster that matches your interests and learning style
- Complete a Four-Year High School Plan and update as needed
- Attend a career fair, trade fair, or occupational fair
- Complete one job-shadow experience related to your identified Career Cluster
- Complete a resume (and update as needed) (REQ)
- Visit one employment site (if applicable)
- Attend one college-representative visit or experience one employer interview
- Create a tentative post-secondary plan
- Finalize a post-secondary plan
- Complete a graduation exit survey (REQ)

CAREER CLUSTER and the NHS CAREER DEVELOPMENT GRADUATION REQUIREMENT:

A METHOD OF ORGANIZING THE WORLD OF WORK AND HELPING OUR STUDENTS PLAN THEIR FUTURES

Technological advances and global competition have transformed the nature of work, and hence, the way we need to prepare our students for life after high school. Tomorrow's jobs will require more knowledge, better skills, and more flexible workers than ever before. Tomorrow's workers must be prepared to change jobs and careers several times, continually updating their knowledge and skills.

Career Clusters is a national concept that organizes school curricula around broad, general career paths that the NH Department of Education is now promoting. They provide a format to link school-based learning with career-related experiences. Following the US Department of Education's generic model of sixteen large categories, the clusters consist of: Agriculture, Food & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communications; Business, Management & Administration; Education & Training; Finance; Government & Public Administration; Health Science; Hospitality & Tourism; Human Services; Information Technology; Law, Public Safety & Security; Manufacturing; Marketing, Sales & Service; Science, Technology, Engineering & Mathematics; and Transportation, Distribution & Logistics.

The concept of Career Clusters will help students map out their academic high school experience with the connection of college and career options for the future. As the Career Development Graduation Requirement is implemented students will be able to discover and explore all of their career options using a nationally accepted, uniform system. For more information please view:
https://link.edgepilot.com/s/0ac45b15/G8slXcyiKUuyZCUshV0L4w?u=https://docs.google.com/document/d/1i55TnJHjk0Mu3FabRY-H0-S2BJM4YhpXU0lOYksjT6I/edit

COLLEGE ADMISSIONS REQUIREMENTS

As college admission requirements vary, we encourage students to consult the websites and catalogs of the colleges and universities in which they are interested, to review specific admissions criteria. Students should also consult with School Counselors and teachers for recommendations regarding course planning.

Preparing for College: Number of Years Commonly Required in Different Subject Areas

	English	**College Math**	**Social Studies**	**Science**	**World Languages**
Competitive four-year colleges and universities: required	4+	4+	4+	4+ *(with lab)*	3 or more of same language or 2 each of two languages
Four-year colleges: required or highly recommended	4	4	3	3 *(2 labs)*	2 or more of same language
Two-year colleges: required or highly recommended	4	2 or more	2 or more	2 or more *(1 lab)*	—
One- and two-year specialty and technical schools: required or highly recommended	4	1-3 *(incl Algebra 1)*	2	2	—

College math includes: Algebra I, Algebra II, Geometry, Precalculus, Calculus, AP® Calculus AB, AP® Calculus BC, Probability and Statistics, and Quantitative Reasoning.

Lab sciences include Biology, Chemistry, Anatomy and Physiology, and Physics.

DESCRIPTION OF HIGH SCHOOL COURSE LEVELS

All courses in the departments of English, Social Studies, Science, Mathematics and World Languages have a level designation as explained below. Students are not "tracked" by level, in that their schedule can include classes of different levels. Level placements are recommended by teachers annually and confirmed by parents.

Level AP®
Advanced Placement® (AP®) is reserved for those courses approved by the College Board as having met their college-level curriculum criteria during an annual AP® Course Audit process. AP® courses a.) are very rigorous, b.) utilize a course of study similar to a college course, and c.) culminate in a national exam in May. These courses may require additional summer work which must be completed prior to the start of the school year. All students are strongly encouraged to take the AP® exam, for which the College Board charges an exam fee to the student. Students who experience financial hardship may be eligible for fee reduction.

Honors
Honors courses are designed for students who demonstrate exceptional academic ability, achievement, and motivation. Honors courses are offered on a very limited basis and only as enrollment projections permit. Some College Preparatory classes offer the opportunity for students to contract for Honors designation by agreeing to be responsible for additional work.

College Preparatory
College Preparatory course subject matter is approached in greater depth and with increased rigor. Students receive college and career-ready preparation at this level.

Prerequisite Waiver:
Students may complete a form if they have not completed the grading requirements to enroll in a given class but wish to take the course anyway. There are classes that require a B+ or higher average in the prior class in order to enroll in the class. Please see the following class descriptions to identify the classes that require the B+ or higher average for enrollment.

NEW HAMPSHIRE SCHOLARS

New Hampshire Scholars is part of the State Scholars Initiative, a National program that partners with business leaders to motivate students, beginning in Grade 8, to complete a rigorous core course of study in high school - one that will give them a boost in college and careers. New Hampshire Scholars encourages and motivates all high school students to complete a rigorous core course of study that prepares them for successful transition to college coursework or technical training necessary to enter today's competitive job market.

New Hampshire Scholars gives students an edge – one that's of real value to them, the schools they attend, the companies they work for, and the communities where they live. For more information, see your school counselor or visit the NH Scholars website at www.nhscholars.org.

COURSE DESCRIPTIONS

VISUAL ARTS

111 A Little Bit of Everything Art! 0.5 credit Grades 9-12
Just like the title says, this art course introduces students to many different art and craft projects. Students will experiment with traditional art including; drawing, painting, sculpting, and printmaking techniques. Craft projects will round out the course including; glass fusing, jewelry making, needle felting, resin art, world crafts, and many more unusual art experiences. A brief history of art and craft works is introduced. Field Trips to museums also add to a great art experience!

112 Advanced Art 0.5 credit Grades 10-12
This course is designed for a more focused art student. This college-based curriculum will challenge the student's creativity and enhance their hands-on skills. Students will learn more advanced art techniques such as oil painting, graffiti art, silk screening, jewelry design, creating bowls on the potter's wheel, charcoal portraiture, drypoint engraving, and much more. They will be required to make and use their own art sketch-book, partake in the "Plaster Cast Hands" program at the Newmarket Elementary School, and design their own digital art portfolios for college acceptance. They will travel to see the work of contemporary artists at local exhibitions, perform self-critiques and research a favorite artist who inspires them. Most of all, they will make their own art, get a chance to try things they have never tried before, and have a great time!
Prerequisite: A Little Bit of Everything Art!

113 Studio Art 0.5 credit Grades 10-12
This studio course lets the art student design his or her own art curriculum. Within an Art I classroom environment, students will work with the instructor daily to develop an enriching curriculum. A minimum of 10 projects will be required over the course of the semester: two paintings, two drawings, two sculptures, two prints and two free choice projects. This will promote the idea that students will challenge themselves by engaging in more advanced art techniques. Students will also participate in the "Friendly Friday" projects along with the A Little Bit of Everything Art students to enhance their experience. A written self-reflection is required for each project completed, as well as a digital portfolio of their projects throughout the semester. *Prerequisite: Permission from instructor and A Little Bit of Everything Art!*

114 Introduction to Photography: From Darkroom to Digital 0.5 credit Grades 10-12
This course will explore not only the basic theory and practice of black and white photography but will also encompass how digital photography affects our lives each day. Students will first be introduced to the history of photography and they will practice using a 35mm SLR camera. Next, they will experiment with camera exposure, proper lighting techniques and learn how to make interesting photographic compositions. They will explore proper chemical usage, and black and white print processing procedures. Students will then take that knowledge and apply it to digital photography. Students will be required to learn how to properly use a digital 35mm SLR camera. They will learn about Ms. Blake's favorite photographers throughout the ages, fun camera controls and creative digital processing techniques. Students will be able to process their own digital photo- graphs right in class! Topics include landscape photography, hand coloring techniques, portraiture, low light photography and more. A lab fee of $40 covers the cost of the photographic supplies used throughout the semester.

118 Photography II 0.5 credit Grades 10-12

This independent study is designed for the student who has already completed the introductory Photography class and has a desire to pursue photography to a higher degree. The class is by permission of the instructor only and conducted within the Introduction to Photography classroom, if numbers permit. The student will get the chance to design their own independent curriculum from a list of more advanced photography ideas: Fashion photography, Crystal Ball Photography, Nighttime Photography, Projection Portraiture, and more. Their portfolio will consist of 12 projects (incorporating darkroom and digital technique) and a final project. Students may use the darkroom at their convenience. They must hand in all assignments in a timely manner. All printed photographs must be matted and titled. A digital portfolio of their work will be designed at the end of the semester. This course will require a $40.00 lab fee for supplies.

Prerequisite: Intro to Photography

116 Introduction to Ceramics 0.5 credit Grades 9-12

This course is intended for those students who are studying ceramics for the first time. It is an interesting and comprehensive introduction to the craft of clay working. The primary emphasis is on studio work, leading to a portfolio of finished pieces by the end of the semester. This course will cover all aspects of ceramics, starting with how to use your hands as a tool. Students will learn all hand-building techniques: pinching, coiling and slab work. Students will learn about the history of clay sculptures, different types of clay and their uses, a variety of firing processes and different types of glazing techniques. Students will also have the chance to experience the potter's wheel! They will learn how to properly center the clay to form a variety of plates, bowls, cups, and other utilitarian pieces. In addition to demonstrations of technique and technical assignments, the class will take a field trip to view historic and contemporary examples of fine ceramic art at a local museum.

117 Advanced Ceramics and Pottery 0.5 credit Grades 10-12

Held within the Introduction to Ceramics classroom, this hands-on course will continue to expand the student's ceramics knowledge (pinch, slab, coil, and wheel throwing) with more advanced concepts. Students will spend more time on the wheel creating a variety of bowls, plates, vases, cups, and independent projects of their choice. They will learn more about glazing techniques and be allowed access to more exotic clays like porcelain and dynamic glazes. Projects may include more 3D design and sculptural pieces. Students will be able to reflect upon their experience through self-critique and explore the creations of different ceramic artists through artist reviews. A digital portfolio of their work will be completed by the end of the semester.

Prerequisite: Introduction to Ceramics and permission of teacher.

121 Counterclockwise 0.5 credit Grades 9-12

This dynamic class is where art and writing collaborate in a variety of unique projects. Students will be given the chance to combine their love of writing short stories, essays, and poetry with numerous drawing, painting and printmaking techniques to produce a creative art and literacy magazine called *Counterclockwise*. Now celebrating its 12th year, *Counterclockwise* is a self-produced school publication that will celebrate the creativity within our school walls! Students will also get the opportunity to work as a true team! We become editors, artistic directors, and graphic designers as we use InDesign to construct our 32-page magazine!!!

122 The Art of Stained Glass 0.5 credit Grades 9-12

Throughout history, stained glass is a widely recognized and beautiful art form. Students will have the chance to learn about the history of stained glass and the stories it told! Together, we will explore the different types of stained glasses that are made, and students will get to select their favorites and create their own original suncatchers, mosaics, night lights, three dimensional pieces, window designs and more. Each student will receive their own set of tools and will learn about the cutting and grinding process, copper foiling method and soldering techniques. We will hear from different artists about their exciting careers in the stained-glass field. The class will also get the opportunity to witness the beautiful Tiffany-stained glass creations at the Museum of Fine Arts in Boston.

127 Introduction to Painting 0.5 credit Grades 9-12

"I dream my painting and I paint my dream" –Vincent Van Gogh

Do you love to paint or want to learn? This introductory class is about using your creativity and challenging yourself. There are many kinds of paint and techniques to explore! Together we will experience creating art with oil paints, acrylics, watercolors, gouache, ink, spray paint, coffee and more. Students will paint on paper, canvas, glass, and wood. They will try different painting processes using different brushes, paint applicators, and 2D and 3D painting surfaces. We will explore the works of master painters and their processes and give some of them a try. A field trip to the Museum of Fine Arts in Boston will top our semester's experience, as we spend the day appreciating the works from the past to present. *Class will be limited to 12 students.*

128 Introductory Drawing 0.5 credit Grades 9-12

This course is designed for students who love to draw or want to improve their drawing skills? This course will be about finding your voice as an artist. Drawing will focus on communicating how you, as an artist, see the world through your drawings and will help you to develop your own artistic style. This course explores the elements of art and principles of design, 3D shapes, perspective drawing, facial features and proportions of the face, cartooning, and landscape drawing.. You will also be able to learn about a specific aspect of drawing that you would like to know more about. If you use procreate or adobe photoshop we can incorporate that into some of the work we do.

129 Portfolio Design 0.5 credit Grades 11-12

This course is intended for the junior or senior who plans to pursue an art career. Each student will be responsible for designing their own college admissions portfolio based on college specifications. A minimum of 20 original pieces will be required along with a self-reflection on each. Students will explore 3D design, self- portraits, landscapes, still lives and much more!

Prerequisite: Permission of teacher

MUSIC

511 Concert Band 0.5 Credit Grades 9-12

521 Honors Concert Band

*This class will be a .5 credit class this year that students can repeat each semester for credit. Students with a schedule conflict one semester can participate for one semester of the year. Concert Band will function as a performing ensemble composed of wind and percussion instruments. Musical and nonmusical skills such as ensemble playing, teamwork, intonation, technique, sensitivity, and balance and blend to build individual musical, and personal growth are addressed. This class will assess students based on their ability to perform the skills learned in class through performances and video assessments. The high school Band will perform in at least once concert per semester. In addition, it will likely have several extra performances throughout the year. Participation in all performances is mandatory.

Prerequisites: *previous experience in band at the middle or high school level or instructor approval. This course meets the Fine Art graduation requirement. Students may repeat this course for credit.*

Honors: *Students taking this class for honors credit will develop independent musicianship and complete additional assignments and projects. Projects might include: Auditioning for NH All-State Festival, leading ensemble warm-ups, etc.*

512 Concert Chorus 0.5 Credit Grades 9-12

522 Honors Concert Chorus

***This class will be a .5 credit class this year that students can repeat each semester for credit. Students with a schedule conflict one semester can participate for one semester of the year.**
Concert Chorus aims to develop proper singing techniques and the basic music literacy concepts of reading and performing rhythm and pitch. Students will learn these concepts by performing choral pieces in multiple styles and genres. Students will be evaluated and graded on their ability to meet the competencies outlined in the course syllabus. Meeting these competencies will depend on independent practice outside of class time. The high school Chorus will perform in at least one concert per semester. In addition, it will likely have several extra performances throughout the year. Participation in all performances is mandatory. This course meets the Fine Art graduation requirement. Students may repeat this course for credit.
Honors: *Students taking this class for honors credit will develop independent musicianship and complete additional assignments and projects. Projects might include: Auditioning for NH All-State Festival, leading ensemble warm-ups, etc.*

513 American Pop Music 0.5 Credit Grades 9-12
This semester-long course will explore popular music in America. Students will learn about the development of popular music since the twentieth century, including genres such as jazz, swing, musicals, country, rock and roll, Motown, disco, hip hop, pop, and others. In addition, students will learn to analyze and identify how the elements of music relate to popular music. Finally, they will discover connections between significant events in history and popular music and have the opportunity to create and perform popular styles of music.

514 Music Theory 0.5 Credit Grades 9-12
This semester-long course will introduce students to the basics of music reading and musical theory. Solid knowledge of music theory is fundamental for students who wish to advance their musical skills. Music theory is also necessary for students who are interested in composing music. Students will learn the elements of music and their applications in beginning composition. Students will also develop their aural skills through rhythmic and melodic dictation exercises.

515 Piano Lab 0.5 Credit Grades 9-12
This semester-long course will instruct students in keyboard/piano techniques. The class consists of a mixture of group instruction and individual practice. Students will be graded on their individual progress and effort. Students may eventually, with approval from the instructor, choose a more specific genre of piano music to study and practice, such as chordal accompaniments, classical technique, etc. Students with previous piano experience may also join this course to enhance their skills. No previous piano experience is required for this course.

516 Guitar Lab 0.5 Credit Grades 9-12
This semester-long course will instruct students in acoustic and electric guitar techniques. The class will consist of a mixture of group instruction and individual practice. Students will be graded on their individual progress and effort. Students may eventually, with approval from the instructor, choose a more specific genre of guitar music to study and practice, such as folk, jazz, reggae, etc. Students with previous guitar experience may also join this course to enhance their skills. No previous guitar experience is required for this course.

935 Music Production 0.5 Credit Grades 9-12
This semester-long course will dive into the hardware and software used to record and produce music. Topics will include properties of sound, recording hardware, sound engineering, Musical Instrument Digital Interface (MIDI), MIDI Polymorphic Expression (MPE), synthesizers, Digital Audio Workstations (DAWs), and digital notation. Students will become familiar with DAW software such as Soundtrap and Ableton and digital notation software including Noteflight. This course will emphasize the creative process of music; students will have opportunities to bring and record personal instruments or voices. Prior knowledge of music theory or songwriting is not required.
Note: This course meets either digital literacy or Fine Arts graduation requirements.

TECHNOLOGY EDUCATION

The Technology Education curriculum introduces students to the skills and opportunities in the fields of graphic communications, energy and power, wood technology, technical drawing, and construction technology, through the application of organized knowledge and problem-solving techniques.

941 Intro to Woodworking Technology 0.5 credit Grades 9-12
In Intro to Woodworking we will build a project as a class from the beginning to the end. From the plan and design to the construction and finishing. If you have enjoyed woodworking and design in the past and want to know more or have no experience and want to try something new, come join us. We will make two projects. One will be a group project: table, box, bench, etc... The other will be a turning project. We will make whistles and pens and if you have never used a lathe I can guarantee you will love it.
Note: This course can be used to satisfy the Art requirement.

942 Advanced Woodworking Technology 0.5 credit Grades 10-12
Learn to build furniture, cabinets, seating, containers, structures, or use the lathe for creation. Greater emphasis will be placed on design, construction techniques, advanced wood joinery, and quality craftsmanship. The focus in this class will be taking the skills you have learned in Design and Creation to create more advanced projects, The goal is to create a lathe turning project and an intermediate project of your choosing.
Prerequisite: Intro to Woodworking or permission of the teacher. This course can be used to satisfy the Art requirement.

943 Architectural Drafting and Design 0.5 credit Grades 10-12
We begin this design course by studying the basic drafting techniques of orthographic, pictorial, and schematic design. Using these skills, we study the design, planning, and layout of common residential house designs (Architectural Drafting). Each student will design his/her own houses with specific room layouts and floor plans. These drafting techniques will be taught both by using drafting tools and through a short introduction to Computer Aided Drafting (CAD). Each student will also build a model of their design and as a class, we will construct scale models of 2-bedroom homes from balsa wood.
Note: This course can be used to satisfy a technology requirement Art or math experience.

944 C.A.D. (Computer Aided Design) 0.5 credit Grades 10-12
This class is an introduction to basic skills and procedures of the CAD technology field. This is a technology-based course in which the student will be using a computer to run AutoDesk software with AutoCAD, and Architectural Desktop. Topics will include multi-view drawings, floor plans, elevation plans, and dimensioning, as well as working in a professional environment. This is a hands-on course, which is technical as well as creative, and will explore the 2D aspects of the software. The student will be required to follow and observe national standards (mechanical and architectural), as well as local building codes (architectural), and professional standards throughout the duration of the course. Note: **This course can be used to satisfy a technology requirement or math experience.**

945 Art in Wood 0.5 credit Grades 9-12
This class is an exploration of the principles of design and construction through experiences such as veneering, scroll sawing, wood burning, inlay, wood turning, jewelry making, and furniture making. This course will be based on student's creativity and imagination using wood as the medium for expression. Some projects may include wood burning, string art, wooden picture frames, mirrors, turned bowls, hand-carved bowls, oval Shaker boxes, bandsaw boxes, inlaid cutting boards, relief carvings, jewelry, etc. **This course can be used to satisfy the Art requirement.**

947 3D Solid Modeling 0.5 credit Grades 10-12

This course introduces students to the use of Inventor Computer Aided Design software to produce parametric models, assemblies, and drawings for the manufacturing industry. Topics will include sketches, reference planes, relations, part modeling techniques, constraints, evaluation tools, redesign, and presentation techniques. Students will participate in a variety of engineering design challenges and create a mechanical assembly that will be produced using the 3D printer. Note: **This course can be used to satisfy a technology requirement or math experience.**

BUSINESS

915 Accounting 1.0 credit Grades 10-12

How do businesses prosper in tough economic times? Explore the language of business and find out! Learn the accounting cycle using manual and computerized accounting systems for sole proprietorships, partner- ships and corporations. This course will introduce students to the flow of money in business. This course is designed for students planning a career in business, finance, management, marketing, banking, accounting or business ownership. This is not considered "college math."

Notes: this course meets requirements as a 4th math experience.

917 Personal Finance 1 credit Grades 10-12

The growing emphasis on financial literacy has highlighted the need for students to learn how to navigate the financial decisions they must make and how to make informed decisions related to managing finances and budgeting, saving and investing, living independently, earning and reporting income, buying goods and services, using credit, banking and protecting against risk. Knowing, understanding and applying these concepts offers the necessary tools for addressing economic issues, both personal and societal.

Notes: this course meets requirements as a 4th math experience.

920 Marketing 0.5 credit Grades 10-12

Would you like to write a Super Bowl commercial, design a logo for a new product, or create a social media campaign for your favorite company? Marketing is an introductory course designed for students who are interested in learning and applying the marketing strategies and tactics used in the world's most successful companies. In addition, communication, interpersonal, and technology skills will be developed. Creative, hands-on projects and collaborative activities are an integral part of this course.

922 Social Entrepreneurship 0.5 credit Grades 10-12

Would you like to be a changemaker? Would you like to solve real-world social, economic, or environmental problems? This course will focus on entrepreneurship in our community, social innovation, problem-solving using design thinking, leadership and team building skills. Students will assume the role of a changemaker in order to experience empathetic leadership roles, while working to solve problems for the good of society. The course will provide students the opportunity for hands-on, high impact, experiential learning opportunities to develop and deploy effective solutions to challenging and often systemic social and environmental issues, in support of social progress.

DIGITAL LITERACY

GRADUATION REQUIREMENT

As the demand for STEAM employees increases in this competitive information age, it is more important than ever that students have the opportunity to become competent & creative critical thinkers & capable digital equipment users, to maximize their chances of gainful employment and/or college entrance. Towards this end, it is important for students to make appropriate course selections. There is a 0.5 credit technology literacy graduation requirement, which student may obtain by taking any of the Digital Literacy course selections below, or by attending SST and passing either Pre-Engineering or Computer Programming.

929 Technology and Society **0.5 credit** **Grades 9-12**
Through theory and practical experience, students will address the impact of computing technology on 21st century life. Students will experience the 5 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 iterative design process to develop authentic technological artifacts to solve real-world problems.

Other classes that fulfill this requirement:

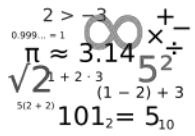
944 C.A.D. (Computer Aided Design) **0.5 credit** **Grades 10-12**
See Technology Education for course description

947 3D Solid Modeling **0.5 credit** **Grades 10-12**
See Technology Education for course description

943 Architectural Drafting and Design **0.5 credit** **Grades 10-12**
See Technology Education for course description

933 Web Development **0.5 credit** **Grades 9-12**
The ability to design, create, and edit web pages is a skill useful in many career fields. In this project-based course, students will learn to code and style web pages using HTML and CSS. Students will learn advanced techniques to build engaging, mobile-responsive websites and finish with a portfolio of computational artifacts to showcase their skills. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their own multi-page websites.

MATHEMATICS



***** Per NH Minimum Standards, students must have exposure to mathematics and English concepts & competencies in <u>all years</u> they attend high school.**

Mathematics Pathways

	Community College and Career	College Preparatory	Accelerated	Honors/Advanced Placement (H)/(AP)
Grade 9	Pre-Algebra	Algebra I (CP)	Algebra I (H)	Geometry (H)
Grade 10	Algebra I	Geometry (CP)	Geometry (H)	Algebra II (H)
Grade 11	Geometry	Algebra II (CP)	Algebra II (H)	Pre-Calculus (H)
Grade 12	**General Math Electives:** Math Elective *(1 Credit)* Accounting (1) CAD (.5) 3D Solid Modeling (.5) Architectural Drafting and Design (.5) Personal Finance (1) Selected SST Courses (1)	Probability and Statistics Precalculus (H) Advanced Placement (AP) Statistics Calculus (H) Advanced Placement (AP) Calculus AB		

The following courses can count as 4th year math experience classes:

- CAD (.5 credit)
- 3D Modeling (.5 credit)
- Personal Finance (1 credit)
- Accounting (1credit)
- Arch Drafting and Design (.5 Credit)
- Physics/Honors Physics (1 credit)

415 Pre-Algebra 1.0 Credit Grade 9

This course will provide students with the understanding of the concepts and skills needed to be successful in Algebra I. The students study quantitative relationships & learn to simplify & evaluate numerical expressions and solve equations. Students will analyze situations, including real-life situations, verbally, numerically, graphically, and symbolically. In addition, students will review fractions, decimals, percent's, ratio, & proportions. Students follow this course with Algebra I.

Note: This is NOT a NCAA approved Math course

424 Algebra I (CP) 1.0 Credit Grades 9-12
Students will explore algebra through the lens of real world problems and applications. Topics include One-variable Statistics, Linear Equations, Inequalities and Systems, Functions, Introduction to Exponential Functions, Introduction to Quadratic Functions, Quadratic Equations, and Two-variable Statistics. A scientific calculator, such as the TI-30XS (Algebra 1) or TI-36XPro (Algebra 1 & Algebra 2) is recommended. Prerequisite: This course is designed for students who are proficient in pre-algebra and have standardized test scores or a teacher recommendation that supports this.

425 Algebra I (Honors) 1.0 Credit Grades 9-12
Students will explore algebra through the lens of real-world problems and applications. Topics include One-variable Statistics, Linear Equations, Inequalities and Systems, Functions, Introduction to Exponential Functions, Introduction to Quadratic Functions, Quadratic Equations, and Two-variable Statistics. A scientific calculator, such as the TI-30XS (Algebra 1) or TI-36XPro (Algebra 1 & Algebra 2) is recommended. The Honors designation has students moving through the material at a quicker pace. Prerequisite: This course is designed for students who are proficient in eighth grade mathematics and have standardized test scores or a teacher recommendation that supports this.

431 Geometry, College Preparatory 1.0 Credit Grades 9-12
Essential for further study in mathematics, geometry develops logical thinking through deductive and inductive reasoning. Semester one includes a foundation of Constructions and Rigid Transformations, followed by a study of Congruence, Similarity, Right Triangle Trigonometry, Solid Geometry, Coordinate Geometry, Circles, and Conditional Probability. Proofs are a necessary part of the process but are not the emphasis in this course. A scientific calculator, such as the TI-30XS (Geometry) or TI-36XPro (Geometry & Algebra 2) is recommended.
Prerequisite: Algebra 1 (424 or 421 and 421.1)

432 Geometry, Honors 1.0 Credit Grades 9-12
Essential for further study in mathematics, geometry develops logical thinking through deductive and inductive reasoning. Semester one includes a foundation of Constructions and Rigid Transformations, followed by a study of Congruence, Similarity, Right Triangle Trigonometry, Solid Geometry, Coordinate Geometry, Circles, and Conditional Probability. Proofs are an integral part of the process, and many foundational ideas and concepts are developed through proofs and reasoning. A scientific calculator, such as the TI-30XS (Geometry) or TI-36XPro (Geometry & Algebra 2) is recommended.
Prerequisite: Algebra 1 and a teacher recommendation

441 Algebra II, College Preparatory 1.0 Credit Grades 9-12
Students will expand on topics learned in Algebra I through the lens of real-world problems and applications. Topics include Sequences and Functions, Polynomials and Rational Functions, Complex Numbers and Rational Exponents, Exponential Functions and Equations, Transformation of Functions, and Statistical Inference.

442 Algebra II, Honors 1.0 Credit Grades 10-12
Students will expand on topics learned in Algebra I through the lens of real-world problems and applications. Topics include Sequences and Functions, Polynomials and Rational Functions, Complex Numbers and Rational Exponents, Exponential Functions and Equations, Transformation of Functions, and Statistical Inference. The Honors designation has students moving through the material at a quicker pace. Teacher recommendation is required.

450 Probability and Statistics 1.0 Credit Grades 11-12
This course will focus on understanding and interpreting the many aspects of probability and statistics that are encountered in daily life. From election surveys to grading scales, this topic has a wide variety of applications and is useful for all students. The main content will cover analyzing and describing data that fall into the category of normal distributions and answering questions that start with "What is the probability that?" While not as computationally difficult as other math courses, this course has a high level of critical analysis. Additional topics include special cases of normally distributed data, multiple variable regression, and binomial, Poisson, and chi-square distributions.

451 Advanced Placement (AP) Statistics 1.0 Credit Grades 11-12
The purpose of the AP® course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference.

452 Precalculus, Honors 1.0 Credit Grades 11-12
Students will learn the concepts and skills required for the study of calculus, college algebra, and finite mathematics. Topics covered include Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric Functions, Polar Coordinates and Parametric Equations, and Conic Sections. This level of math has a high level of rigor and will prepare students for more advanced math classes. Teacher recommendation is required.

460 Calculus, Honors 1.0 Credit Grades 11-12
This course focuses on students' understanding of calculus concepts and provides experience with methods and applications using the big ideas of calculus: modeling change, approximation and limits, and analysis of functions. The course requires students to use definitions and theorems to build arguments and justify conclusions. The course features a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Topics include limit, derivatives, and integrals. This class is designed for those students who are planning a career in a STEM field but are planning on retaking calculus at the college level, and as such will proceed at a slower pace than the AP® course. A graphing calculator is required for the course (TI 84 Plus CE recommended). *Prerequisite: 452 and teacher recommendation.*

461 Advanced Placement (AP) Calculus AB 2.0 Credits Grades 11-12
AP® Calculus AB focuses on students' understanding of calculus concepts and provides experience with methods and applications using the big ideas of calculus: modeling change, approximation and limits, and analysis of functions. The course requires students to use definitions and theorems to build arguments and justify conclusions. The course features a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Exploring connections among these representations builds understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems. A sustained emphasis on clear communication of methods, reasoning, justifications, and conclusions is essential. Topics include limits, derivatives, and integrals. A graphing calculator is required for the course (TI 84 Plus CE recommended).
Prerequisite: 452 and teacher recommendation

ENGLISH 

The English department offers a four-year program designed to develop skills in reading, writing, speaking, listening, viewing and critical thinking. English electives address these skills as well. While general curriculum goals are similar at each grade level, specific requirements and presentation vary. Students are required to pass English 9, 10, 11, and 12 to graduate. *Electives may not be substituted for required English credit.*

English 9: Genre Studies **1.0 Credit** **Grade 9**
212 College Preparatory
213 Honors
Develops student ability to read for understanding, to write clearly, and to think critically. Provides an introduction to a variety of genres (novels, short stories, poetry, drama, essays, and articles) and reinforcement of literary terms. Students will also study grammar and vocabulary and will analyze texts with an emphasis on supporting all claims, both in writing and in discussion, with evidence from the literature.

English 10: World Literature **1.0 credit** **Grade 10**
222 College Preparatory
223 Honors
This course enables students to think critically, to understand and analyze different forms of literature, and to write clearly and effectively for a variety of purposes. Students will engage with texts from around the world, connecting literature from other cultures, times, and places to their own lives. Assessments include informal and formal essays, a research paper, tests and quizzes, and collaborative projects. Grammar and vocabulary instruction are woven into the curriculum.

English 11: American Literature **1.0 credit** **Grade 11**
232 College Preparatory
233 Honors
This course emphasizes skills and strategies for reading, analyzing, and writing about works of American literature, with a focus on how that literature reflects social, political, and moral issues in the United States. The English 11 curriculum focuses on *The American Experience* through an examination of major figures and memorable characters and their distinctive voices, hopes, and dreams as reflected across both time and genres. The overarching goal of this course is for students to become better acquainted with the rich literary history of America in order to better understand their role as an individual and as an American citizen. Students will strengthen speaking and presentation skills, work collaboratively on projects, conduct formal research, and become more proficient in writing for a variety of purposes and audiences.

English 12: A Thematic Study of Literature **1.0 credit** **Grade 12**
242 College Preparatory
243 Honors
Students learn to read with deeper comprehension, write with greater precision and clarity, and listen with more critical attention. Although students read some major British works, the literature focuses on thematically related works, including non-fiction texts, tailored to the needs and interests of the class. Vocabulary and grammar are woven into the curriculum so that students may apply an understanding of syntax when reading complex texts.

245 AP® English Literature and Composition **1.0 credit** **Grade 12**
An alternative to English 4 for students who want a challenging, college-level course that meets College Board Advanced Placement® Standards, this course includes the intensive and extensive study of representative works from various genres and periods. Students will read closely for detail, literary devices, and structures, participate in discussion, and write critical analyses of literary passages and works, in both impromptu and prepared essays. Students will practice with frequent, timed on-demand essay writing, as this is the format for the AP® exam. A documented literary analysis essay is required.

ENGLISH ELECTIVES

Prerequisite for English Electives: 75% in current core English course and/or recommendation from current core English teacher.

257 Writing Lab 0.5 credit Grades 9-12
In this course, students will produce clear and coherent writing for a range of tasks, purposes, and audiences. Students will prewrite, draft, revise and edit to improve their writing. Students will develop their skills in vocabulary, word choice, and complexity of sentence structure. This course may also support students in their writing tasks for other classes. In addition, students will explore new techniques and genres and read/analyze a variety of writing exemplars.

260 Creative Writing 0.5 credit Grades 10-12
What does writing an engaging and captivating story involve? How does one encapsulate a complex idea inside of a 500-word piece of flash fiction? What does it take to create new characters? Students will seek to answer these questions by reading and writing creative works. Students will also analyze point of view, sensory details, dialogue, and so much more in order to compose pieces of writing that are thoughtful, purposeful, and unique to their individual writing styles. English department competencies covered include: Reading Literature, Narrative Writing, Reading Informational Texts, and Speaking & Listening.

265 Movies that Matter 0.5 credit Grades 11-12
In this course, students will carefully view, analyze, and critique acclaimed films from various genres and time periods. Students will analyze directors' choices, including cinematic techniques, and will write regularly and engage in discussions about films. English department competencies covered include: Reading Literature, Research, Analytical Writing, and Speaking & Listening.

276 Sports in Literature 0.5 credit Grades 10-12
Sports have played an important role in American history and writing, and this course will focus on the use of sports in literature. Sports have served as the setting for novels, short stories, poetry, speech, movies, and articles. Students will explore themes such as leadership and character, success and failure, hero worship, and rivalries. Students will understand the role that organized sports has played in history, the physical and mental reasons why people participate in sports, and they will read literature about sports, athletes, and coaches, and demonstrate understanding through a variety of writing genres and projects. English Department competencies covered include: Reading Literature, Reading Informational Text, Writing & Grammar, and Speaking & Listening.

275 Nonfiction True Crime 0.5 credit Grades 10-12
What makes an effective true crime novel? How can true crime novels be used to inform readers about history, the present, and the future? How can writers make readers want to keep reading something that deeply disturbs them? Students will explore these questions through class discussions and writing. English department competencies covered include: Reading Literature, Reading Informational Text, Writing & Grammar, and Speaking & Listening.

277 The Quest for Equity Throughout History and Literature 0.5 credit Grades 10-12
The written word has always been a powerful tool in the historical struggle for equity. By studying literature and the historical movements and times in which it was created, students will analyze the steps that individuals have taken in the struggle for equity. They will also consider steps needed in contemporary society in order to achieve full social equity. English department competencies covered include: Reading Literature, Reading Informational Text, Writing & Grammar, and Speaking & Listening.

278 Journalism 0.5 credit Grades 10-12

Why journalism? When students learn to make sense out of their world, they become the people who will transform it. This course is designed to provide students an introduction to the foundations of journalistic practice. Students will be provided an opportunity to hone their writing skills, acquire practical knowledge and problem-solving skills, practice teamwork, and have the ability to showcase individuality and creativity. Students will encounter various article formats and work towards developing their voice using various writing styles. Students will delve into the history of journalism and various perspectives on American journalism. Students will discuss newspaper publication, journalistic ethics, and think critically about bias in reporting. Students in Journalism will focus on writing, research, oral interpretation, and analytical reading in their assessments and portfolio. English department competencies covered include: Reading Informational Text, Narrative Writing, Analytical Writing, and Speaking & Listening.

FAMILY AND CONSUMER SCIENCE

951 Foods 1 0.5 credit Grades 9-10
Focuses on the skills needed to be an efficient cook in everyday life. Topics include understanding the costs to prepare recipes, portion control, safety and sanitation in the kitchen. Through weekly cooking labs, students will also learn food preparation skills, including proper use and care of kitchen equipment and how to read and create recipes.

952 Foods II 0.5 credit Grades 10-12
Includes study of ingredients and making healthy food choices. Students will build on skills learned in Foods I. Through weekly cooking labs, students will build on food preparation skills and developing skills in the kitchen.
Pre-requisite Foods I

964 Introduction to Baking 0.5 credit Grades 9-12
Overview of the art and science of baking. Students will be introduced to baking bread, quick breads, cakes and desserts. Looking at how science and art meet to the delight of all who enjoy baking or to those that enjoy eating dessert.

965 Introduction to Hospitality Management 0.5 credit Grades 11-12
A senior level class that would be dual enrollment with local colleges. Students would have to have a B average overall in Newmarket and have scored a "A" in Foods I and/or Clothing and Sewing, or Cooking with Culture. Overview of the hospitality and tourism industry that is rich in the local community. This college level course will give students a head start on college courses while looking into the world of hospitality, tourism, and business management and how it impacts our local economy.
Note: This course is a Running Start course where you can earn college credit through Great Bay Community College.

956 Clothing and Sewing Skills 0.5 credit Grades 9-12
Students learn sewing skills, both hand and machine, by completing projects that meet their individual interests and abilities. Projects may include a recycle bag, mittens, pajama pants, a pillow, and/or a quilt. Learn to maintain your wardrobe as part of independent living. Projects will reflect skill level on competencies.

PHYSICAL EDUCATION AND HEALTH

All P.E. classes are co-educational. Each student is required to wear sneakers and have a complete change of clothes for good personal hygiene habits.

610 P.E. 9 0.5 credit Grade 9
This required physical education course is the first of a progression of courses offered that strives to promote, through total body movement, the health and welfare of all students. An emphasis will be placed on personal fitness, successful teamwork, and sportsmanship. The participants will be involved in skill development and learn the rules and strategies in our co-curricular sports offerings including basketball, badminton, flag football, personal fitness, soccer, track, and volleyball.
NOTE: Required of all freshmen

613 Lifetime Fitness and Games Education 0.5credit Grades 9-12
Lifetime Fitness and Games Education is geared toward educating about fitness awareness and concepts through lifetime activities. Examples of activities offered are fitness walking, and recreational sports (bowling, badminton, etc.). Pedometers will be used to help students track movement, while monitoring heart rate and other fitness measures.

614 Lifetime Fitness and Games Education 2 0.5 credit Grades 9-12
Lifetime Fitness and Games Education is a continuance of fitness awareness and concepts through lifetime games and Activities. Activities offered will be a combination of lifetime activities and team sports, progressing into advanced skill-work, understanding of how to officiate and referee games with strategic play.

615 Personal Fitness 0.5 credit Grades 10-12
Personal Fitness will include a combination of weight training and advanced circuit training. Group fitness videos will be used in addition to weight training workouts. Principles of training and workout progression will be discussed. Students will become familiar with designing personal fitness plans.
Prerequisite: Completion of at least one semester of either Lifetime Fitness Education.

617 Unified Physical Education 0.5 credit Grades 9-12
Unified Physical Education is geared toward educating students through a partner-participant model. The partner will guide and support the participant through various skills, activities and modified games. The purpose of this class is to have the partner take on leadership roles while supporting the participant in a more cooperative learning environment.
Prerequisite: Completion of at least one semester of either Lifetime Fitness Education I or II.

618 Yoga and Mindfulness 0.5 credit Grades 9-12
This course is designed to introduce students to the basic postures, breathing techniques, and relaxation methods of yoga and mindfulness practices in a safe and accessible way. Students will learn about the bene- fits of stretching, moving, and breathing freely as ways to relieve stress, relax, and focus in ways that they can transfer to their daily life.

711 Health **0.5 credit** **Grades 9-12**

This class will explore the New Hampshire guidelines for health education by covering the following content areas: alcohol and other drugs, injury prevention, nutrition, physical activity, family life and sexuality, tobacco, mental health, personal and consumer science, and community and environmental health. The focus will be building health skills to promote a healthy lifestyle.

SCIENCE

The Science Department offers courses in many fields of science. The goal of these courses is to create a scientifically literate student body, as well as to provide a foundation of knowledge and skills that will allow students to achieve success in future science courses at the collegiate level. The sequence of courses for most students is: Physical Science, Biology, and Chemistry, followed by electives.

Physical Science **1.0 credit** **Grades 9-12**
712 College Preparatory
713 Honors

Physical Science is a gateway science course intending to spark student interest in the sciences. Students will learn about how scientists operate in a lab as well as industry applications of science through project based learning. This is a full-year course that utilizes modern scientific tools and techniques to understand the overarching concepts related to Chemistry, Physics, Technology and Earth Space Science. The curriculum integrates technology skills, laboratory skills and math skills that stress the development of critical thinking, experimental design, measuring and recording data, data analysis and interpretation, using models, communicating scientific findings and argumentation.
Honors prerequisite: 90% or above in Grade 8 Science and Grade 8 Math.

Biology **1.0 credit** **Grades 10-12**
722 College Preparatory
723 Honors

Biology is the science of life. It is a requirement for graduation. This course uses a storyline curriculum to create coherence between biology topics and encourage independent learning. Topics covered include: animal behavior, cycles of matter, energy budgets, homeostasis, photosynthesis and cellular respiration, DNA and proteins, cell structures, genetic inheritance and expression, and evolution. Classroom activities and assessments will focus on introductory biological knowledge as well as skills such as creativity, group collaboration, scientific reasoning, and observation. Honors students should be ready for more independent work on projects outside of class.

725 Advanced Placement (AP) Biology **1.0 credit** **Grades 11-12**

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions.
Prerequisites: Physical Science (Honors) and Biology (Honors)

Chemistry **1.0 credit** **Grades 10-12**
732 College Preparatory
733 Honors

This course will focus on the fundamentals of inorganic chemistry. It will include matter, energy, and change. It will also involve measurements and problem-solving, atomic structure, electron configurations, the Periodic Law, chemical bonding, chemical formulas and chemical equations and reactions, percent composition and empirical formulas, and stoichiometry. This course will also focus on the practical use of chemistry. It will involve physical characteristics and molecular composition of gasses, liquids, and solids, solutions, acids, bases, and salts with

titration, reaction energy and reaction kinetics, chemical equilibrium, and oxidation-reduction reactions. This is a laboratory course requiring detailed laboratory reports.
CP Prerequisite: Algebra I, Physical Science & Biology
Honors Prerequisite: Algebra 2 (enrolled in or completed)

734 Advanced Placement (AP) Chemistry 1.0 Credit Grades 11-12
The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to enroll in courses in other fields where general chemistry is a prerequisite. Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems.
Prerequisite: Physical Science Honors, Biology Honors, Chemistry Honors and enrolled in (or completed) Precalculus or Calculus.

735 Environmental Science 1.0 credit Grades 11-12
Get ready to explore the natural world and the living organisms that interact with it and consequently change it. Studying the interactions between the biotic and abiotic factors in a variety of ecosystems with a focus on environmental issues significant to the world today will be the prime directive of this course. Climate change and our energy future, acid rain, ozone depletion, nitrification of water systems, exponential population growth vs. limited natural resources, and loss of biodiversity will be topics for discussion, lectures, projects, labs and thought-provoking videos.

736 Advanced Placement (AP) Environmental Science 1.0 credit Grades 11-12
The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Students will nurture their understanding of environmental science through inquiry-based lab investigations, field trips, and field work. The class will use these experiences to explore topics in ecosystems, biodiversity, human populations, land and water use, energy resources/consumption, pollution, and climate change.
Prerequisites: Algebra; *Biology Honors or teacher recommendation; Chemistry (can be taken concurrently)*.

762 Anatomy and Physiology: Movement and More 1.0 credit Grades 10-12
This is a rigorous course, and the material moves quickly. Students who are considering a college track involving the medical field should take this course. However, even just being curious about how the body works is enough to get hooked. Taking A+P: Movement and More does not mean you have to enroll in A+P: The Insides of You. The course opens with an overview of anatomy and physiology terminology, a review of chemistry and biochemistry followed by cell biology, tissues, integumentary system, skeletal system, and muscles/ nerves. This is an advanced study of the human body's structure and function. The class will consist of lab dissections, lectures, video, discussion, and projects.
Prerequisite: Biology (Grade 10 if enrolled in Biology)
Note: Will run alternating years with A&P: The Insides of You; this course will be offered again in 23-24

772 Anatomy and Physiology: The Insides of You 1.0 credit Grades 10-12
This is a rigorous course, and the material moves quickly. Students who are considering a college track involving the medical field should take this course. However, even just being curious about how the body works is enough to get hooked. This class may be taken before or instead of A+P: Movement and More. The course opens with an overview of anatomy and physiology terminology, followed by a survey of the nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. This is an advanced study of the human body's structure and function. The class will consist of lab dissections, lectures, video, discussion, and projects.
Prerequisite: Biology (Grade 10 if enrolled in Biology)
Note: Will run alternating years with A&P: Movement & More; this course will be offered in 24-25

747 Forensics 0.5 credit Grades 10-12

Forensics applies scientific principles and practices to the operations of the criminal justice system. Students will learn in this elective how to secure a crime scene and gather many types of evidence. Through lab activities, students will analyze evidence including witness statements, fingerprints, DNA, and much more, and report their findings, as well as place their analysis in the context of the justice system. Case studies will illustrate the many uses of forensic science in criminal investigations.

Prerequisite: Biology (Grade 10 if enrolled in Biology)

742 Physics (CP) 1.0 credit Grades 10-12

743 Physics (Honors)

This class is a preparation for college physics and to develop a deeper understanding of our physical world. A strong math background is helpful, but math support is provided for those in need. In semester one, mechanics is covered in detail including vectors, motion, Newton's Laws, momentum, and energy (including mousetrap car design). Semester two covers circular motion, torque, rotational mechanics, center of gravity, and universal gravitation, electricity, and rocketry. There will be an Honors Option in this course. Honors students will be able to further their breadth of knowledge and be asked to investigate an extra topic every quarter and can choose from topics such as light, sound, vibrations, waves, color, electrostatics, electric fields, and electric potential, electric current, or electric circuits. Student designed projects with teacher approval is also an option for the honors level designation.

PA1a & PA1b Advanced Placement® (AP®) Physics 1 1.0 credits Grades 11-12

Project Accelerate (PA): A high school and university partnership course through Boston University.

AP® Physics is an algebra-based, college-level introductory physics course. Topics covered align with the College Board AP® Physics 1 syllabus and include translational motion, forces, momentum, energy, simple harmonic motion, waves, rotational motion, static electricity, direct current electronics, and electric fields. The primary instructional tool is a private online program containing instructional scaffolding, multiple assessment tools, simulations, and a suite of virtual explorations emphasizing science process practices. Although instruction is provided primarily through an online instructional tool, we want to emphasize the partnership aspect of the program. Students are not left to move through the course at their own pace. Students will be assigned time during the school day equivalent to any other major course to work in the online instructional tool.

A close relationship is maintained between the university and the partner high school through regular communications between an appointed high school building liaison and a university liaison from Project Accelerate. Students selecting this course should have the potential for independent learning, and a demonstrated track record of on-time assignment production.

Prerequisite: Algebra 2 or equivalent. Availability limited to 8 seats per school, so seniority, teacher recommendation, and PSAT scores may be used to determine placement.

745 Astronomy 0.5 credit Grades 10-12

Not to be confused with astrology, this course will examine a number of questions about the universe. Where did the planets come from? Why do stars twinkle? Can someone ever escape from a black hole? Since the beginning of time, humans have been fascinated with the sky, the concept of the universe, and what is truly "out there." This course introduces students to astronomy, including its history, its basic laws, its modern concepts, and how it is currently being studied.

Prerequisite: Physical Science

Note: This course will run alternating semesters with Zoology

738 Zoology 0.5 credit Grades 9-12

This course explores the branch of biology that deals with animals and animal life, including the study of structure, physiology and development, with emphasis on evolution and animal classification. Students will explore the nine phyla of the animal kingdom through life-history research, specimen dissection and direct observation. The class is designed to study animals in great detail and will serve to foster an understanding that the animal kingdom is incredibly varied and amazing. *Dissections are required.*

Note: This course will run alternating semesters with Astronomy

SOCIAL STUDIES

Foundations of United States History **1.0 credit** **Grades 9-12**
812 College Preparatory
813 Honors
Student historians can expect to explore the emergence of modern America through four major essential questions: What is necessary to make real change? What is the impact of place on people and culture? Whose responsibility is it? What is America's responsibility in the world? Students will be expected to participate in reading and analysis of a vast array of primary and secondary sources, critical thinking, writing, effective research, in-depth discussion and debate, and presentations using a variety of methods. Some topics to be studied include: Reconstruction of post-Civil War America, the American Civil Rights Movement, the West, the Great Depression, Current Events and WWII.
NOTE: Graduation Requirement

Foundations of Western Civilization **1.0 credit** **Grades 10-12**
822 College Preparatory
823 Honors
Each course is a year-long elective. In the first semester, students will engage in an exploration of events and civilizations that shaped Western Civilization, such as ancient Egypt, Mesopotamia, Greece and Rome. The second semester will include the Fall of Rome, the Middle Ages, the Renaissance, the Reformation. We will use the following essential questions: What is reasoned judgment with regard to the assessment of history? What importance do cultural ancestors play in the forming of Western culture? How do major societal pieces like religion, economics and war impact human development? How do we develop and defend historical theses? Students can expect to practice effective notetaking, analysis of primary sources, and critical viewing of films. Students will also participate in lectures, class discussions, practice writing essays, educational games and developing long-term assignment schedules.

832 World Geography **1.0 credit** **Grades 10-12**
This course offers students an opportunity to focus on landscape, economy, history and the complex cultures of the Western and Eastern Hemispheres, including Latin America, Canada, Asia, Europe, etc. Students will engage in a variety of map reading activities, readings, data analysis, lectures, and projects.

Civics **0.5 credit** **Grades 11-12**
804 College Preparatory
804H Honors
Students in Civics can expect to develop their knowledge and practical application of the rights and responsibilities related to citizenship. Students will study the Constitution, the political system of the United States, the workings of local, state, national and other governments, as they relate to effective participatory citizenship. Students will be expected to engage in a variety of civic activities, develop knowledge of current events, participate in class discussion and debate, critically read and analyze both primary and secondary sources, and engage in research projects and presentations.
NOTE: Graduation Requirement

Economics **0.5 credit** **Grades 11-12**
805 College Preparatory
805H Honors
This course is an introduction to fundamental economic concepts including: supply and demand, capitalism and other economic systems and theories, the complex roles of the government and financial institutions, international trade, and personal finance. Students can expect to critically read and interpret a variety of texts, charts, and graphs, participate in class discussions and debates, apply concepts to current events, conduct research, and present information in a variety of ways.
NOTE: Graduation Requirement

806 American Liberties and Rights 0.5 credit Grades 11-12
This course addresses amendments to the Constitution that grant civil liberties and rights to Americans. Is the Constitution a living document? Should the text be strictly interpreted, or should we look to the intent of the Founders when the Constitution was written? How do Supreme Court decisions impact your rights? A majority of the course will involve the clauses in the Bill of Rights which address individual freedoms and civil liberties. Specific topics covered include freedom of speech, the right to bear arms and the expectation of privacy.
Prerequisite: Successful completion of Civics
NOTE: This class will run in alternating years; will be offered again in 23-24

814 Advanced Placement® (AP®) U.S. History 1.0 credit Grades 11-12
This accelerated study of American history is both reading and writing intensive. Students can expect to study units from the Age of Exploration to the present. Students will develop a strong foundation of both historical content, analytic reading, writing and thinking skills. Emphasis will be placed on in-depth analysis of primary sources and other documents to develop and effectively defend these. Students will also participate in research, class lectures, discussion and study groups. The AP® U.S. History program is a one-year course with required summer assignments necessary for inclusion in the course.
NOTE: This class will run in alternating years; will be offered again in 23-24

839 Introduction to Psychology 0.5 credit Grades 11-12

This is an introduction to the field of psychology, the social science that tries to explain "why individuals act the way they do." In this course, students can expect a general survey of several areas including: research methods, psychological theories, basic brain physiology, intelligence, learning, motivation, personality, behavioral disorders, and social psychology. Students can expect to read a variety of texts, case studies, and experiments. Students will also conduct research, participate in presentations and in-depth class discussions.

841 Street Law 0.5 credit Grades 11-12
Students will develop a practical understanding and "real life" implications of the American legal system. Students will deepen their knowledge of the fundamentals of local, state and federal law and how those laws "play out" in the lives of citizens. Students will be expected to participate in a variety of activities including lectures, in-depth discussions, research, case summaries, mock trials, and guest speakers.
Prerequisite: Successful completion of Civics
NOTE: This class will run in alternating years; will be offered again in 23-24

842 Twentieth Century America 0.5 credit Grades 10-12
Have you ever wondered: What happened after WWII? Who was JFK? Who were hippies? Why was America in Vietnam? What events contributed to the events of 9/11? If so, this may be an elective of interest to you. Students in this course will study America's changing culture at home, and America's dynamic and growing role abroad in the last half of the 20th century through today. Some topics/events may include: the Cold War and its impact, the Korean Conflict, the Civil Rights Movement, America in Vietnam, Feminism, Watergate, the Reagan Revolution and the 1980's, terrorism and US foreign policy, challenges and expectations in the twenty-first century. Students will examine a variety of sources, research, data analysis, presentations and interviews, as well as produce technology-based assessments
Prerequisite: US History
NOTE: This class will run in alternating years; will be offered again in 24-25

843 Current Events 0.5 credit Grades 10-12
This course allows students to explore local, state, national, and global issues that pertain to their everyday lives. Students will become media literate, learning how to identify bias and analyze diverse multimedia sources. Current Events will offer an objective examination of current happenings and determination of the origin of contemporary issues. Topics depend on events occurring, but some possible topics are government, economics, conflict, and politics. This course has a strong focus on media literacy, following the news and discourse.

848 Sociology 0.5 credit Grades 11-12
This is an introductory course in Sociology, the branch of the social sciences that studies the behavior patterns of groups of people and the impact those groups have on individuals. Students can expect to study sociological methods, culture, socialization, deviance, social stratification (gender, age, ethnicity), social institutions (religion, family, education, sport), and social change. Students will participate in class discussions, read and interpret data, analyze case studies, conduct research and make presentations.
NOTE: This class will run in alternating years; will be offered again in 23-24

851 Comparative Religions and Cultures - Honors 0.5 credit Grades 10-12
This course is an introduction to major world religions including Hinduism, Buddhism, Sikhism, Judaism, Christianity, and Islam. Through an objective study of the founding and context, fundamental religious beliefs, sacred texts, practices, holidays/rituals, and contemporary practice, students can expect to gain a better understanding of today's complex and interconnected world through the study of culture. Students will read a variety of texts, participate in lectures, discussions, and presentations, view a variety of films, conduct research, observations, and interviews.
NOTE: This class will run in alternating years; will be offered again in 24-25

853 International Relations 0.5 credit Grades 10-12
This course serves as an introduction to international relations. Students will study our responsibilities as global citizens, the role of the United Nations, defense policy, causes of war, evolution of American foreign policy, international politics, globalization, human rights, and environmental degradation. In addition to exploring these topics, students can expect to read and analyze a variety of texts, conduct research, write reports, evaluate and interpret media, and participate in debate and in-depth discussions.
NOTE: This class will run in alternating years; will be offered again in 24-25

277 The Quest for Equity Throughout History and Literature 0.5 credit Grades 10-12
The written word has always been a powerful tool in the historical struggle for equity. By studying literature and the historical movements and times in which it was created, students will analyze the steps that individuals have taken in the struggle for equity. They will also consider steps needed in contemporary society in order to achieve full social equity.
NOTE: This class will run in alternating years; will be offered again in 23-24

854 Silk Road: Asia from Past to Present 0.5 credit Grades 10 - 12
"What is behind the economic rise of China and India? The Silk Road was an ancient trade route connecting China with Europe, and included various routes through the Middle East, Central Asia and Africa. It facilitated the transfer of goods, culture, art, religion and people across the known world. Today, countries which featured heavily on the Silk Road, particularly China & India, are still major players in global trade and geopolitics. This class will allow students to explore the diffusion of culture and commerce from Asia to Europe across history, from ancient times to the present day. Can ancient history teach us any lessons about the rise and fall of economic powers? We'll be the ancient Silk Road with China's new Belt & Road Initiative and taking a look at the rise and fall of various other countries that had been a part of this ancient trade route.
NOTE: This class will run in alternating years; will be offered again in 24-25

859 Criminology 0.5 credit Grades 10-12
Criminology provides a general introduction to the study of crime and criminal behavior. The focus will be an overview of the major criminological theories and how these theories of criminal behavior are related to the policies and operation of the criminal justice system. Crime measurement, patterns and trends in crime, and attempts to address this behavior are all discussed. This is a significantly deeper dive into the topic than addressed in Criminology & Forensics which focuses more on the measurement and analysis of the effects of criminal behavior rather than the causes and trends.

WORLD LANGUAGES

The World Language Department offers courses in Spanish and Mandarin Chinese from beginning levels through advanced studies. All courses explore both linguistic and cultural aspects of the language in order to gain a comprehensive knowledge and understanding of the Spanish-speaking and Mandarin Chinese-speaking worlds.

Language acquisition, comprehension of structure and practice of speech are a natural part of the second language classroom. In all levels, time is divided into the development of cultural knowledge and all four language skills: reading and listening comprehension, along with writing and speaking proficiency. The target language is used to its fullest extent appropriate to the level in each of the classes.

321 Spanish I 1.0 credit Grades 9-12
This course introduces students to the Spanish language and Spanish-speaking cultures. Basic vocabulary and idiomatic expressions are introduced at this level. Through reading stories and storytelling, basic vocabulary points are also introduced with a focus on regular present tense verbs, some irregular verbs, the concept of gender, the agreement and placement of adjectives, as well as the placement of the adverbs. Also introduced at this level are the basics of the past tense. Culture studies will focus on a brief overview of the twenty-one Spanish speaking countries, classic cultural holidays of the Spanish-speaking world and a deeper dive into the cultures seen in class novels.

322 Spanish II 1.0 credit Grades 10-12
The course builds on the skills formed in Spanish I. Students further develop their skills in reading and listening comprehension, and in writing and speaking proficiency. Additional vocabulary and idiomatic expressions are taught to continue building communication skills. More complex grammatical structures are introduced. Students are encouraged to practice their speaking skills in the classrooms in an organic way. Culture studies will focus on the Spanish-speaking world through current event discussions, classic cultural holidays, and independent investigation. Students are guided through their creative discoveries and personal exploration of the Spanish language and culture.
Prerequisite: Passing grade in Spanish I.

323 Spanish III, Honors 1.0 credit Grades 10-12
This course further develops the skills acquired in Spanish I and II. Students improve all five skills: reading, listening, writing, speaking, and culture. Extensive vocabulary and additional idiomatic expressions are added to enhance the students' communication skills. Previously learned grammatical structures are reinforced and advanced grammatical structures are introduced. Students sharpen their speaking skills organically in the classroom. Students continue to explore the language and culture of the Spanish-speaking world through short videos and authentic reading material. Opportunities are provided to promote personal connections and creative thinking.

324 Spanish IV, Honors 1.0 credit Grades 10-12
Students further enhance their skills through reading and discussing Spanish literature, including poetry. Students investigate the political issues of various Spanish-speaking countries. Additional vocabulary is presented and advanced grammatical structures are introduced. The class is mostly conducted in the target language. Students engage in organic conversation in Spanish. Authentic materials for listening comprehension are used from various sources, as well as readings of current news articles. At this level, students explore personalized essential questions and embark on a guided quest to find answers. Students are empowered and encouraged to become creative thinkers through writing and answering thought-provoking questions.

330 Mandarin Chinese I 1.0 credit Grades 9-12
This course introduces students to the Chinese language, culture, and history. In this course, students will begin by learning Chinese pronunciation, writing Chinese in pinyin and learning to write Chinese characters correctly. Students will learn to conduct basic Chinese conversations in certain situations. While most of the focus will be on listening, speaking, and writing, students will learn about Chinese culture and history, as well.

331 Mandarin Chinese II 1.0 credit Grades 10-12
Mandarin Chinese II continues the study of Chinese speaking, reading and writing skills. Students increase the number of characters they can comprehend and write. Students will learn more about how characters are constructed and be able to read more advanced material. Listening and speaking skills will be increased through in-class activities. Students will also continue to learn about Chinese culture and history.
Prerequisite: Passing grade in Mandarin Chinese I.

332 Mandarin Chinese III, Honors 1.0 credit Grades 10-12
Mandarin Chinese III continues the study of Chinese speaking, reading and writing skills. Students are challenged to read longer and more in-depth reading selections in Chinese characters. Listening comprehension is increased through viewing more advanced videos and spoken materials. Speaking-skill fluency is emphasized. Students will also gain an in-depth understanding of Chinese history during the year.

333 Mandarin Chinese IV, Honors 1.0 credit Grades 10-12
Mandarin Chinese IV continues to emphasize Chinese speaking, reading and writing skills and places particular emphasis on proficiency in conversation and reading. Upon completion of this course, students should be able to speak in Chinese, with some fluency, in intermediate conversational topics, as well as read and write short compositions using characters. Students will continue to gain an in-depth understanding of Chinese history during the year, as well.

STUDY SKILLS

777 Study Skills Lab I 1.0 credit Grades 9-10
This class is for first and second-year high school students. Study Skills I delivers explicit instruction and support in academic skills such as advanced note-taking skills; utilizing information resources effectively (in print and online); writing process practice, including graphic devices for organization; and determining and applying known math skills to other content area classes and real life. The class also supplies instruction and practice in executive functioning skills such as time, materials and work management; effectively using SMART goals; understanding individual learning differences; analyzing individual learning profiles; promoting self- advocacy; and engaging in personal career/job opportunity research to develop their individual transition plan. This course is available to students as outlined in their Individualized Education Plan (IEP).

778 Study Skills Lab II 1.0 credit Grades 11-12
This class is for third and fourth-year high school students. This class continues and expands on the work in Study Skills I in writing and math academic skills. It also continues instruction and practical application opportunities in executive functioning skills such as managing time, materials and work; effectively using SMART goals; understanding and optimizing individual learning differences; and promoting self-advocacy. Study Skills II guides individual student exploration of career/job possibilities to develop their transition plan based on student preferences, self-awareness as a learner and worker, and educational and financial requirements. Students will be given opportunities to meet and interview professionals in various professions (areas deter- mined by student interest) and students will be assisted in experiencing job shadows and/or arranging college or training visitations. This course is available to students as outlined in their Individualized Education Plan (IEP).

779 Reading/Word Study .50 credit Grades 9-12

Word study is designed to build word knowledge that can be applied to both reading and spelling primarily using the Wilson Reading System (WRS). WRS is a structured literacy program that directly and systematically teaches the structure of the English language. Through the program, students learn fluent decoding and encoding skills to the level of mastery. Vocabulary and comprehension skills are woven throughout each lesson. Student skills are assessed through informal evaluations to target areas of need and progress monitoring is used to gauge student academic performance.

Prerequisite: Permission from the instructor.

DISTANCE LEARNING OPPORTUNITIES

VIRTUAL LEARNING ACADEMY CHARTER SCHOOL (VLACS)

VLACS Enrollment, Support & Resources

The Virtual Learning Academy Charter School offers 90+ high school courses, and 40+ dual-credit courses in which students earn college and high school credit concurrently. VLACS also offers competency recovery programs to replace lost credits, and opportunities for extended online learning. VLACS is an approved, diploma-granting NH public school and is free to all NH students.

KEY POINTS ABOUT VLACS

- You must obtain approval to take a VLACS class in order for the course to be included on your transcript (see counselor for the approval form)
- Students are encouraged to take classes at NJSHS unless there is a scheduling conflict
- Students may take VLACS courses on their own time, or they may include VLACS class as part of their daily schedule, with prior administrative approval
- Students must follow the Newmarket grading timeline for VLACS courses. There is no grace period at the end of the semester.
- The senior completion date for full-year courses as well as Semester 2 courses will be sooner due to graduation.
- VLACS courses may be dropped without affecting a student's transcript during the Add/Drop period only. VLACS courses dropped after the Add/Drop period have an impact on eligibility for honor roll and are recorded as follows:
    - WP Withdraw Passing
    - WF Withdraw Failing
    - WM Withdraw Medical
- No credit will be awarded for VLACS courses dropped after the Add/Drop period

SEACOAST SCHOOL OF TECHNOLOGY

Seacoast School of Technology visits NJSHS every spring for a presentation to students in Grade 10. At that time, students interested in learning more about SST opportunities may sign up for a visit to that school. Enrollment in SST courses depends on both space availability and student progress toward meeting graduation requirements. While most students begin SST courses in Grade 11, students in Grade 9 who have already completed Algebra I may enroll in Pre-Engineering I if space is available. In rare instances, some students in Grade 10 may begin enrollment in SST, with administration approval.

FIRST YEAR SST PROGRAMS

	NH Scholars	Lab Science	4th Year Math Experience	Dual Enrollment	
SST Animal and Plant Science I	STEM	X			Prerequisite: Biology
SST Automotive Technologies I	STEM		X		Certified through National Automotive Technicians Education Foundation
SST Biomedical Science and Technology I	STEM	X		X	Biology credit
SST Building Construction Technologies I	STEM		X		Prerequisite: 16 years old by September 1
SST Careers in Education I	STEM			X	English credit
SST Computer Science I	Tech/computer/ STEM				Semester 2 Prerequisite: Introduction to Computer Science
SST Culinary Arts I	STEM		X		
SST Digital Media Arts I: **SST Graphic Design (Sem 1)** **SST Animation (Sem. 2)**	STEM & Art& Tech				2 semester-based courses Art credit
SST Health Science Technologies I	STEM & Lab Science	X		X	Prerequisite: Biology Note: Meets the Health grad requirement
SST Marketing Technologies I	STEM & tech		X	X	
SST Pre-Engineering I : **SST Introduction to Engineering Design (Sem. 1)** **SST Principles of Engineering**	STEM & Lab Science& Art & Tech		X	X	Science credit 2 semester-based courses Open to Grades 9-12 Prerequisite: Algebra I
SST Welding Technologies I	STEM & Art		X		

SECOND YEAR SST PROGRAMS

Course	NH Scholars	Lab science	4th Year Math Experience	Dual Enrollment	Elective Credits, Prerequisites, etc.
SST Animal and Plant Science II	STEM & Lab Science	X		X	Prerequisite: Animal and Plant Science I
SST Automotive Techn II	STEM		X	X	Prerequisite: Automotive Technologies I
SST Biomedical Science & Tech II	STEM & Lab Science	X	X	X	Biology Prerequisite: Biomedical Science and Technology I
SST Building Construction Technologies II	STEM		X		Prerequisites: Building Construction Technologies I and 16 years old by Sept. 1
SST Careers in Education II	STEM & Social Science			X	English Prerequisite: Careers in Education I
<u>SST Computer Science II:</u> SST Advanced Programming/ Java (Sem. 1) SST Advanced Programming/ C++ (Sem. 2)	STEM & Lab Science		X	X	2 semester-based courses Prerequisite: Introduction to Computer Science
SST Culinary Arts II	STEM & Art		X	X	Prerequisite: Culinary Arts 1
SST Digital Media Arts II: SST Web Design (Sem. 1) SST Video Production (Sem. 2)	STEM & Art & Tech				Art 2 semester-based courses
Health Science Technologies II	STEM & Lab Science			X	Lab Science Prerequisite: Health Science Technologies I
Marketing Technologies II	STEM		X	X	Social Studies Prerequisite: Marketing Technologies I
Pre-Engineering II: SST Digital Electronics (Sem. 1) Civil Engineering and Architecture (Sem. 2)	STEM & Lab Science & Art		X	X	2 semester-based courses Lab Science Prerequisite: Introduction to Engineering Design or Principles of Engineering
Welding Technologies II	STEM & Art		X	X	Prerequisite: Welding Technologies I

NJSHS STATEMENT OF NON-DISCRIMINATION

SAU 31 does not discriminate in the administration of its admissions and educational programs, activities, or employment practice on the basis of race, color, religion, national origin, age, sex, handicap, sexual orientation or marital status. This statement reflects the mission of SAU 31 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;

NH Law Against Discrimination (RSA 354-A) and State Rule: Ed. 303.01 (i),(j),(k).

Inquiries regarding discrimination may be directed to Superintendent of Schools, SAU 31, 186A Main Street, Newmarket, NH 03857, (603) 659-5020.