

JOHN STARK REGIONAL HIGH SCHOOL

Program of Studies 2016-2017

INTRODUCTION

The Program of Studies is a guide to help students plan their school program through graduation. Careful planning of a high school career is essential to the successful realization of future goals, whether vocational, Armed Services, or college. In addition to describing course offerings, this Program of Studies details the requirements for graduation, the New Hampshire Scholars Program, the John Stark Regional High School Diploma with Distinction, and the School Counseling (Guidance) Support Plan to help students realize their Career and College Readiness goals.

JOHN STARK REGIONAL HIGH SCHOOL

Core Values Statement

We are a community of learners who engage our minds in the pursuit of individual academic growth, social awareness, and community involvement. Our learning occurs in a safe and caring environment with regard, respect, and integrity – this is the *John Stark Way*.

John Stark graduates will be able to:

Academic Competencies

- Communicate effectively through written, oral, and artistic means.
- Acquire knowledge through listening, reading, and viewing.
- Demonstrate research skills that lead to informed decision-making and reasonable conclusions.
- Use critical thinking to solve problems.
- Apply technology to access information and to demonstrate learning.

Social Competencies

- Take responsibility for their own actions, practice respect and regard for self and others, and demonstrate integrity.
- Work as part of a team and be comfortable in both leadership and supporting roles.
- Make healthy choices to enhance the development of lifelong wellness practices.
- Understand the value of becoming a lifelong learner.

Civic Competencies

- Appreciate diversity and respect all persons irrespective of their individual differences.
- Participate in the school and greater community.
- Be informed and involved citizens with an awareness of local, national, and global issues.

SETTING EDUCATIONAL GOALS

Students at John Stark Regional High School are able to take advantage of many educational opportunities available to them in preparation for postgraduate options. With this in mind, students are encouraged to enroll in challenging classes designed to assist them in their preparation for further education or career after high school. Course offerings at John Stark are designed to provide flexibility in meeting students' needs, while offering them the skills and competencies required for success in college and career.

Each college is looking for students who take the most rigorous courses and programs they can handle. College admissions officers are also looking to see how each student maximized the opportunities available to them at their high school. Many colleges require that a student follow certain recommended or prescribed courses of study in high school in preparation for entrance into college. Students should consult college catalogues and their school counselor regarding the specific requirements of the colleges to which they intend to apply.

To help determine their post-graduation and educational goals, students are encouraged to carefully review this Program of Studies and to discuss their goals and decisions with their parents, teachers, and school counselor.

Consider the following:

- What are my goals here at John Stark and in the future?
- What courses are required to graduate from high school? To get into college?
- How will the courses I select now affect what courses I am able to take in the future?
- What are my strengths and weaknesses?
- What courses or activities tap into these?

NH STATE SCHOLARS INITIATIVE

The NH State Scholars Initiative is a state program designed to encourage and motivate students to complete a rigorous course of study while in high school. Colleges across the country recognize New Hampshire as one of many states with a State Scholars Initiative. This is a Federal grant-funded program developed and administered through a partnership between the New Hampshire College and University Council, the New Hampshire Forum on the Future, the New Hampshire Department of Education and the National State Scholars Initiative Network.

Students may follow the standard NH Scholars pathway, or may opt for an emphasis in either STEM or Art. Each pathway requires that students take specific courses, which may also count toward the John Stark Diploma with Distinction. John Stark will recognize these seniors with a gold medallion, which will be worn at graduation. Seniors who are Pell grant eligible in the college financial aid process may also receive a higher grant due to being a State Scholar. For more information about the NH Scholars Program please go to www.NHscholars.org.

GRADUATION & DIPLOMA REQUIREMENTS

GRADUATION REQUIREMENTS

The JSRHS School Board confers one of two diplomas on its graduates: The John Stark Regional High School Diploma or the John Stark Regional High School Diploma with Distinction. Note that, by earning the John Stark Diploma with Distinction, students may also qualify for the NH Scholars designation, if they take the required courses in the selected pathway.

Given the recent changes to the NH State Scholars program, which formed the basis of our Diploma with Distinction option, the John Stark diploma requirements will be reviewed as part of our community forums in 2016 and 2017. Current options and recognition will remain in place for graduating classes of 2017 and 2018. Proposed changes would provide additional options for the class of 2019 and beyond. (Adopted by JS School Board, 09/14/16)

COMMUNITY LEARNING

In order to promote and develop an active citizenry, the John Stark School Board requires each student to complete at least 35 hours of Community Learning in areas such as: Community Service/Service Learning, Civic Engagement, Academic Enrichment, and Career/College Exploration. These hours will be tracked and awarded .25 credits upon completion. Students may petition for up to .25 additional credits.

CAPSTONE PROJECT

Formerly called the Senior Project, the Capstone Project is a demonstration of the student's ability to perform new and independent learning to accomplish a goal of personal interest while guided by a mentor. Students are required to present their project to a teacher evaluation team and make their project available for public viewing at the General Expo. While the Capstone Project is designed to award .25 credits, students may opt to increase the scope of their project and request .5 credits for their learning. Students may complete this 30-hour requirement as an Independent Study ELO called Capstone Project, or through participation in a Capstone Seminar course offered during the school day. This Seminar option is available to seniors during semesters one and two and to juniors, on a space available basis, during semester two.

DIPLOMAS, COURSEWORK, AND CREDITS

| Competency area requirements as approved by JSRHS School Board on Jan. 9, 2014 (Revised September 14, 2016) | JSRHS Diploma | JSRHS Diploma w/ Distinction*** | Highly Selective Colleges look for: |
|---|----------------------|--|--|
| English | 4 | 4 | 4 |
| Social Studies – US and NH history & government/civics, geography, and economics w/financial literacy | 4 | 4 | 3 to 4 |
| Math - including Integrated Algebra/Geometry I & II (satisfies algebra and geometry requirements) or the equivalent** | 3** | 4 | 4 |
| Science - physical, biology, and earth science * | 2.5 | 3.5 | 4 |
| Arts education | 0.5 | 0.5 | |
| Information and Communications Technologies (ICT) | 0.5 | 0.5 | |
| Health education, physical education, and wellness | 2 | 2 | |
| World languages | | 3 | 3 to 4 |
| Community learning: college and career, civic engagement of at least 35 hours | 0.25 | 0.25 | |
| Capstone project/seminar (includes 30 hour project) | 0.25 | 0.25 | |
| Additional electives | 5 | 6 | |
| Total | 22 | 28 | |

*The Class of 2017 may, if necessary, substitute another science course for the Earth Science requirement.

**Class of 2020 - Per NH RSA 186:8 VII Students must “attain competency in mathematics for each year in...high school through graduation...” This may be done through “satisfactorily completing a minimum of 4 courses in mathematics or by satisfactorily completing a minimum of 3 mathematics courses and one non-mathematics content area course in which mathematics knowledge and skills are embedded and applied.” These courses will be identified in the 2017/2018 Program of Studies.

*** Given the recent changes to the NH State Scholars program, which formed the basis of our Diploma with Distinction option, the John Stark diploma requirements will be reviewed as part of our community forums in 2016 and 2017. Current options and recognition will remain in place for graduating classes of 2017 and 2018. Proposed changes would provide additional options for the class of 2019 and beyond.

| NH Scholars Pathways | | |
|--|--|---|
| NH Scholars <ul style="list-style-type: none"> • 4 years of English • 4 years of Math • 3 years of Lab Science • 3 ½ years of Social Science • 2 years of a World Language | STEM Emphasis <ul style="list-style-type: none"> • 4 years of English • 4 years of Math • 4 years of Science (3 labs) • 3 ½ years of Social Science • 2 years of a World Language • 1 year (min.) STEM-related • Minimum 3.2 GPA (4.0 scale) | Art Emphasis <ul style="list-style-type: none"> • 4 years of English • 4 years of Math • 3 years of Lab Science • 3 ½ year of Social Science • 2 years of a World Language • 2 years (min) Arts-related • Minimum 3.2 GPA (4.0 scale) |

UNIVERSAL AND SPECIAL SERVICES

A variety of programs and services are offered to assist all students, including those identified with educational disabilities under Public Law 94-142.

School Counseling Center (Guidance) --The School Counseling Center at John Stark Regional High School maintains a belief that students are our greatest priority and that our purpose is to foster and support the academic and social/emotional development of our students. Our goal is to be proactive in working with all students and to maintain a professional relationship with students by creating an atmosphere of respect, accessibility and confidentiality. We believe that open collaboration and effective communication with students, parents and staff is essential to our effectiveness as counselors.

The following is a sampling of the services and resources provided by the School Counseling Center:

- Academic planning and skills support
- Career awareness and planning
- Post-secondary exploration, planning and application process
- Peer relationships and effective social skills
- Communication, problem-solving, decision-making and conflict resolution skills
- Education in understanding of self and others, including strengths and weaknesses
- Individual and small-group counseling
- Individual/family/school crisis prevention and intervention
- Multicultural/diversity awareness
- Maintenance and interpretation of student cumulative records
- Naviance – an online college and career readiness solution that helps connect academic achievement to post-secondary goals and improve college and career planning.

Academic Support Center (ASC) --The Academic Support Center is open to all students for assistance before, during, and after the school day as an extension and/or supplement to their regularly scheduled classes. Content area teachers throughout the day support students who need academic assistance. Students may also use the ASC to take courses on-line or to work on credit recovery using Edgenuity (E2020), our computer based competency recovery program. The ASC also maintains a set of classroom textbooks for students to use while working in the center.

Advisory --It is our hope that each student will have at least one adult in the building with whom they form a meaningful relationship. To assist in that effort, all students are assigned an advisor/teacher, who will serve as their mentor during their four years at JSRHS and guide them throughout their high school experience. Advisory will meet each week. By participating in a variety of activities during advisory, students will develop a closer connection to our school and with their peers in order to improve our overall school culture and climate.

Assisted Study --Students are given the opportunity to work on their coursework and on their personal learning goals with the assistance of a special education teacher. Placement is determined by the special education team.

CLASS (Career Living Academic Skills at Stark) Program --The CLASS Program offers academic, functional, daily living and vocational skills to identified students. Placement is determined by the special education team.

Equity II Program --is an offsite alternative educational program. A committee made up of administrators, counselors, teachers, and special education professionals make referrals to the program, which initiates the referral process. Placement is determined by the program's educational team.

Flex Blocks --A 40-minute block that meets Tuesday through Friday, during which students are scheduled with teachers for assistance and makeup work.

Library/Media Center --In addition to a large selection of books, magazines, and newspapers, our school librarian is available to assist students in finding research materials and to support them in using our online databases.

Related Services --The school provides Speech & Language Therapy, Counseling Services, Occupational Therapy, Psychological Services, Physical Therapy, Special Transportation, and Behavioral consultation.

Student Support Center (SSC) --The Student Support Center provides an environment in which all students can regulate and process behavioral and/or emotional issues with the goal of returning to class and accessing their regular academic programming, without disrupting the education of other students.

Study Halls --Students are given the opportunity to work on their coursework in a relatively quiet environment.

ACADEMIC INFORMATION & REQUIREMENTS

COURSE LOADS, CREDITS, AND CLASS LEVELS

Students are expected to challenge themselves academically during each of their four years at John Stark. For that reason, all students are encouraged to be enrolled in seven credit bearing courses (including ELOs) each semester, as their schedules permit. The Dean of Student Services will review all student schedules with fewer than seven credit bearing courses.

Students generally graduate in four years, provided they have earned the minimum number of credits required. Students must have completed one year of high school and

earned 5.5 credits to be a sophomore; completed two years of high school and earned 11 credits to be a junior; completed three years of high school and earned 16.5 credits to be a senior; and have earned a minimum of 22 credits to graduate. Seniors must complete all requirements for graduation in order to participate in graduation exercises.

COURSE DESIGNATIONS

All students at John Stark are engaged in rigorous and relevant work to prepare them for their futures. Students work on developing their reading, writing, problem solving, and research skills both inside and outside the classroom. Students at all levels are to be active learners, communicators, problem solvers, and contributors. Students are expected to apply what they learn to real-world situations. Courses are designated as follows:

Non-designated - Non-designated courses are open to all students. These courses are structured in content and concept. An additional focus of these courses is the development of skills and habits of work to be college and career ready.

Accelerated - Accelerated courses are challenging and fast paced and/or explore concepts and content at a deeper level. Students are expected to possess the foundational skills and be capable and willing to work more independently. Students in these courses will work to further develop existing skills. *Accelerated classes are delineated with an * throughout the course descriptions.*

Honors - Honors courses cover advanced content with a focus on deeper analysis of material. Students who enroll in honors level courses are highly motivated, independent learners, with advanced habits of work.

Advanced Placement - These are rigorous, college level courses, which follow the curriculum standards set forth by the College Board. Instruction is focused on content and skill preparation for the Advanced Placement Exam in May. AP students are expected to take the AP exam. See course syllabi for additional information.

GRADING INFORMATION

NOTE: Over the course of the 2016/2017 school year, we will be reviewing our grading system as well as practices involving honor roll, class rank, etc. There will be multiple opportunities for members of the greater John Stark community to participate in forums focusing on these topics. Each of these events will be announced in the school newsletter, "Generally Speaking".

Student grades are reported based on mastery of Learning Targets aligned with Course Level Competencies using primarily summative assessments. Online grade books continuously calculate rolling grades with quarterly snapshots, as opposed to traditional quarterly averages.

HONOR ROLL

Honor Roll is calculated at the end of each semester, using the F1 grade. *High Honors* is awarded to a student who has a 92 average with no grade below 87. *Honors* is awarded to a student who has an 83 average with no grade below 80.

CLASS GPA & RANK

Students earn a Grade Point Average (GPA), which is used to determine class rank. All academic courses, with the exception of Extended Learning Opportunities, Summer School/Credit Recovery courses and Pass/Fail courses, are used in determining class rank and GPA. Advanced Placement and Honors level courses are weighted, adding 1.0 additional quality point for AP courses and .5 quality point for Honors level courses. A partial breakdown, of the weighted equivalents for number grades are as follows:

| % Grade | All Classes GPA | Honors GPA | Advanced Placement GPA |
|----------|-----------------|------------|------------------------|
| 100 | 4.33 | 4.87 | 5.33 |
| 95 | 3.88 | 4.38 | 4.88 |
| 90 | 3.43 | 3.93 | 4.43 |
| 85 | 2.98 | 3.48 | 3.98 |
| 80 | 2.53 | 3.03 | 3.53 |
| 75 | 2.08 | 2.58 | 3.08 |
| 70 | 1.63 | 2.13 | 2.63 |
| Below 70 | 0 | 0 | 0 |

EXTENDED LEARNING OPPORTUNITIES

John Stark Regional High School maintains a comprehensive program of studies to meet the interests, learning styles, and career interests of students, but there are many other ways for students to learn and to earn high school (and possible college) credits. Extended Learning Opportunities (ELO) are defined as rich and academically rigorous learning activities that occur outside of the traditional high school setting. Examples include Capstone Project, Independent Study, college coursework (NEC, etc.), work study, internships, Saint Paul's Advanced Studies Program, online courses, and even driver's education. Courses required for graduation (including requirements for NH Scholars and Diploma with Distinction) are not eligible to be taken as an ELO.

Students who seek a transcript credit for an ELO must make their intention known by filing an "Extended Learning Opportunity Plan Application" prior to the start of the course/activity. The plan will be reviewed by the Dean of Student Services and must be approved before a student begins his/her ELO experience. All approved ELOs will appear on the student's transcript. Due to the unique nature of each experience, ELOs that are

granted credit will be designated on the John Stark transcript with a “P” (Pass). *Students must be thoughtful about their decision to pursue an ELO. Once it has been placed on a student’s schedule, failure to complete will result in an “F” (Fail) on the transcript.* ELOs are not included in Grade Point Average (GPA) calculations.

Independent Study - Independent Study is an option for those junior and senior students who have demonstrated the ability to do advanced work and who desire to investigate academic topics beyond the scope of learning experiences offered in the Program of Studies. Independent Studies fall under the category of an ELO. An Independent Study should not be confused with a Directed Study, which is a graded course that has scheduled meeting times with a JS teacher.

Students interested in an Independent Study should:

- Select a topic
- Develop an outline of work, to include statement of objectives, course competencies, activities and methods to be used and how the project will be evaluated.
- Obtain a faculty member who will act as advisor and evaluator.
- Determine duration of project and request credits to be awarded.
- Obtain approval of appropriate department coordinator and the Dean of Student Services.

COLLEGE CREDIT

Project Running Start

- Project Running Start is a partnership between the Community College System of NH (CCSNH) and NH high schools.
- Students are given the opportunity to take college courses while also completing the requirements for high school graduation.
- Last year over 4,000 high school students enrolled in CCSNH college courses at over 70 participating NH high schools.
- CCSNH courses are not extra classes taken before or after school, they are a part of the high school’s daily class schedule.

How can Project Running Start help students?

- Gain experience in college-level work and expectations.
- Receive simultaneous college and high school credit.
- Earn college credits at a fraction of the cost. (\$150 per class, as of December, 2015, payable within the first few weeks of the course.)
- Earn college credits that may be transferred to many other two-year and four-year colleges across the country.
- Running Start students who apply to CCSNH degree programs will have their application fee waived.

- | | | | |
|-------------------------------|-------------------|------------------------------------|-------------------|
| • Intro to Engineering Design | 3 college credits | • Civil Engineering & Architecture | 3 college credits |
| • Principles of Engineering | 3 college credits | • Topics in Applied College Math | 3 college credit |
| • AP Calculus | 3 college credits | • College Composition | 3 college credits |
| • Computer Int. Manufacturing | 3 college credits | • Digital Electronics | 3 college credits |

Advanced Placement – Advanced Placement classes are college level courses. They are rigorous classes following a standard curriculum set by the College Board. Students are expected to take the Advanced Placement Exam in May, with a fee of \$92 as of December, 2015. Students who score a 4 or 5, out of a possible 5, may receive credit for that course at the college level. Because the policy of awarding credits or advanced standing varies among colleges, it is important for students to inquire at their colleges of interest. The following Advanced Placement courses may be offered at John Stark Regional High School:

- | | |
|------------------------------------|----------------------|
| - English Literature & Composition | - Biology |
| - English Language & Composition | - Psychology |
| - United States History | - Calculus AB and BC |
| - Spanish Language | - French Language |
| - Studio Art | - Physics |
| - Chemistry | |

New England College - John Stark seniors are also offered an opportunity to take academic college coursework at New England College. Courses are offered on a space available basis; students are responsible for the registration fee. John Stark students receive one high school credit for coursework passed with a two course/credit limit. Interested students should see the Dean of Student Services for registration information. Upon completion, students receive a transcript from New England College, which indicates the college course and college credit received.

Virtual Learning Academy Charter School (VLACS) - Students also have opportunities to earn college credit, in addition to earning high school credits, by taking college level courses through “e-start” available through VLACS. Prior approval from the Dean of Student Services is required for all college courses.

EARLY GRADUATION

Graduation from John Stark Regional High School earlier than scheduled is an option for those few students who are able to fulfill graduation requirements in fewer than four years or eight semesters of coursework. This program is designed for the motivated student who has definite plans for the future and would benefit from graduating either one semester or one year earlier than scheduled. Academic standing, level of social maturity, and well articulated future plans are important factors for students considering early graduation. Students wishing to pursue the early graduation option must submit a written request to their counselors **by May 15th** of the school year preceding the intended date of graduation, have signed parental permission, and must be able to schedule the required courses to meet all general graduation requirements, including Community Learning hours and Capstone Project. The request is not final until approved by the Dean of Student Services and Principal. Diplomas are formally presented at the annual graduation in June.

ATHLETICS

The athletic program at John Stark Regional High School offers a variety of interscholastic athletics programs during the fall, winter and spring seasons. Each program is elective and offered after regular school hours. Eligibility requirements for participation, as set by the NHIAA and John Stark Regional High School, are:

- Students must pass at least five (5) classroom subjects in the marking period prior to and during the season.
- Students must have a current physical on file with the health office. A physical exam is valid for thirteen months.
- Student-athletes pursuing NCAA Division I or Division II participation in college must meet certain academic qualifications and be certified by the NCAA Eligibility Center. Please consult the NCAA website at www.eligibilitycenter.org for the most up to date requirements and the current list of NCAA approved classes at John Stark.

PLANNING A COURSE OF STUDY

Students must successfully complete 22 credits to earn a JSRHS Diploma or 28 credits to earn a JSRHS Diploma with Distinction. Specific course requirements must also be met for recognition as a NH Scholar. As students begin to choose their classes for the next four years, they should keep in mind what their four-year plan for high school will look like and consider whether they wish to pursue a Diploma with Distinction and/or recognition as a NH Scholar. Many of the required courses will be taken early in the high school career, therefore ninth and tenth graders may have a rather limited number of choices. More elective-type courses can be scheduled during 11th and 12th grades.

Given the recent changes to the NH State Scholars program, which formed the basis of our Diploma with Distinction option, the John Stark diploma requirements will be reviewed as part of our community forums in 2016 and 2017. Current options and recognition will remain in place for graduating classes of 2017 and 2018. Proposed changes would provide additional options for the class of 2019 and beyond. (Adopted by JS School Board, 09/14/16)

GRADE 9

Typical Freshman Program includes:

- | | | | |
|--------------------------------|-----------|--------------------------|-------------|
| • English 9 | 1 credit | • World Cultures & Geog. | 1 credit |
| • Math | 1 credit | • Physical Science | 1 credit |
| • Physical Education I | .5 credit | • Health | .5 credit |
| • ICT/Visual Art/Theatre/Music | .5 credit | • Elective | 1.5 credits |

Freshman year is a year of transition. Students are scheduled into a Humanities Team for English 9 and World Cultures & Geography. While taking a World Language is considered an elective, it is highly recommended that all students take at least one year of a world language. Students preparing to pursue college after graduation will likely find that most four-year colleges require 2 to 4 years of a world language.

GRADE 10

Recommended Sophomore Program:

| | | | |
|--------------------------------|-----------|------------------------|-----------|
| • English 10 | 1 credit | • Western Civilization | 1 credit |
| • Math | 1 credit | • Biology | 1 credit |
| • Physical Ed I/II | .5 credit | • Electives | 2 credits |
| • ICT/Visual Art/Theatre/Music | .5 credit | | |

During sophomore year, students are again scheduled into a Humanities Team for both English 10 and Western Civilization. Sophomores explore career options through the Naviance program, explore the career and technical opportunities available at the Concord Regional Technical Center and may attend a career fair. Students in 10th grade may also be given the opportunity to take the PSAT (Preliminary Scholastic Aptitude Test) in October.

GRADE 11

Recommended Junior Program:

| | |
|---|------------|
| • American Studies or AP Lang. & Comp. /AP US History | 2 credits |
| • Economics or Small Business Management | .5 credit |
| • Civics or “We The People” | .5 credit |
| • Math | 1 credit |
| • Topics in Earth Science | .5 credit |
| • Health Education/PE/Wellness | .5 credits |
| • Electives | 2 credits |

The junior year is a critical year in choosing classes and beginning to formalize post-graduation plans. While many minimum requirements for graduation will have been met, additional math, science, and world language classes are often required for entrance into many four-year colleges. Students should continue to challenge themselves with demanding classes that are appropriate. Be aware that selective colleges pay particular attention to course levels and achievement in English, Mathematics, World Language, laboratory sciences, and Social Studies.

Students who may not plan to go to college right after high school should consider the opportunities at the Concord Regional Technical Center and also explore careers through

School-to-Work internships. Students who are considering career school programs, military opportunities, or two-year colleges, often need additional math and science courses for entrance into certain programs. The counseling center can advise students on these matters. Juniors should also meet individually with college/military/career-school representative who come to visit John Stark.

During their junior year, students should include the following among their planned activities:

- Attend the college fair at John Stark.
- Take the PSAT/ASVAB in October.
- Schedule Junior Interview with guidance in the spring.
- Take SAT/SAT II in the spring.
- Visit colleges in spring and summer.

GRADE 12

The senior year is the ideal time to complete the academic and career/major requirements that will prepare students for post-secondary learning. Some students will seek further education in four-year colleges, while others will obtain specific career training in community and technical colleges or through school-to-work internship programs. Still others will directly enter the world of work or military service where they will participate in on-the-job learning programs. Wherever the path leads, continued education will be important. Today's job market demands continuing education and lifelong learning.

Many students will have taken most of the requirements necessary for graduation, if they have stayed on track in the scheduling process. Seniors must be enrolled in a senior English course each semester, but may take additional English classes if space is available and with teacher permission.

Seniors are also responsible for a Capstone Project during this year, along with completion of their Community Learning hours.

During their senior year, students should include the following among their planned activities:

- Attend college fair in the fall.
- Meet with college admissions counselors/military representatives in counseling center.
- Schedule an appointment in the fall with the Counseling Center to discuss post graduation plans, including college, military, or world of work. This is especially important in order to meet college application deadlines.
- Take SAT/SAT II (if required) or ACT in fall.
- Attend the Financial Aid Workshop in December.

REGISTRATION & SCHEDULING PROCEDURES

PROCEDURE FOR COURSE SELECTION

- Registration for all students will begin early in the second semester. All students will have access to the Program of Studies online and be given a registration sheet to indicate their selections. The Program of Studies (POS) outlines all courses being offered at John Stark for the upcoming school year.
- REVIEW the information in the POS and consult with parents, teachers, and counselor to discuss your selections. Based on this review, and future educational plans, select courses that are of interest and are appropriate to future goals. Be mindful of graduation requirements!
- For each course selected, students must satisfy any prerequisite for taking that course and, if required, get written approval from a teacher in the department (usually the current teacher or department coordinator). For example, current English teachers would sign for next year's English class.
- The master schedule is created based upon student requests for specific courses. Administrators review the requests and make decisions about the number of sections that will run for each course; therefore, student selections during registration are considered to be final, as they are used to make informed decisions that create the master schedule. *It is important to select courses thoughtfully – first and second choices.*
- Parent signatures are required on all schedule request sheets and are to be returned to the counseling center before the winter break in February.
- Students will receive an official schedule on the first day of school.

John Stark administration reserves the right to make changes to schedules and course offerings due to staffing and other constraints.

SCHEDULE CHANGES

Courses selected during registration are considered final selections. Students are given sufficient time and assistance in making choices and are expected to make a full commitment to each course selected. Because the master schedule is created based upon students' requests, it will be very difficult to make changes without negatively impacting other students. The following list suggests when course changes may be appropriate:

- The student has failed to receive the appropriate grade in summer school.
- The student has not taken or has failed the required prerequisite for the course.

- The teacher initiates the change for the benefit of the student.
- An emergency situation exists which requires a change to be made.
- There is a major change in the student's plan for graduation.
- The student has been placed in the wrong class.

"Not liking" a class/teacher and/or wanting to have late arrival or early dismissal are not sufficient reasons for changing classes. The Dean of Student Services will oversee all requests for schedule changes.

ADDING/DROPPING CLASSES

Students may add courses by meeting with their counselor and securing parent/guardian and teacher signatures, as directed. Course additions must take place during the first two weeks of a semester/year course.

Any student who withdraws from a course after the first grade report does so with the understanding that a withdrawal grade will be assigned to the student by the teacher based on the student's grade at the time of withdrawal. That withdrawal grade will be reflected on the student's permanent academic record as a WP (withdrew passing) or WF (withdrew failing). If it is determined that a student needs to withdraw from a class due to extenuating circumstances, a withdrawal grade of W may be issued with approval from the Dean of Student Services. All withdrawal grades will be reflected on the permanent academic transcript.

COURSE DESCRIPTIONS

Career and Technology Education

The Career and Technology Education Department (CTE) is comprised of distinct curriculum areas: Business Education; Information and Computer Technology; Family and Consumer Sciences; and Technology Education. The goal of the CTE department is to introduce students to careers in current and emerging occupations. In today's highly competitive global marketplace, it is important for students to explore all types of careers and learn valuable employability and performance skills. To assist students in specific skill development, the following classes are offered in the CTE department:

BUSINESS

The Business Department offers a wide range of courses, which expose students to many basic skills that are transferrable to other activities within high school, as well as later in life. These courses also provide more specific and marketable skills to students going on to the world of work directly from high school, as well as preparation for post-secondary education in business and/or technology fields.

BUS105 Marketing I **.5 Credit** **Grades 9-12**

Marketing is a business course that provides a basic introduction to the scope and importance of marketing in our free enterprise system. Emphasis is placed on the seven functions of marketing: channel management, marketing information management, financing, pricing, product/service management, promotion, and selling. This course will help you prepare for entry-level marketing employment.

BUS115 Accounting I **1 Credit** **Grades 9-12**

A full-year course designed to develop occupational competencies in bookkeeping. Course content encompasses the complete accounting cycle for both a service business and a merchandising business. Accounting procedures for both sole proprietorships and corporations will be covered. Opportunities for incorporation of computer technology into the instructional format will be provided.

BUS205 Retail Marketing **.5 Credit** **Grades 10-12**

Students will be introduced to the advanced concepts of retail management and marketing. Students will have one period of classroom instruction and two periods of hands-on experience working in the school store during a typical week. By operating the school store, students will learn the procedures related to pricing, markups, inventory, buying, and promotion. Students will learn to make realistic management decisions as they apply what they have learned in the classroom to the operation of the school store.

BUS215 Accounting II**1 Credit Grade 10-12**

This course is an extension of the Accounting I course. The introduction of additional topics involving more complex accounting applications significantly extends the basic accounting concepts and skills.

PREREQUISITE: Accounting I

BUS310 Personal Finance**.5 Credit Grades 11-12**

Prepare for your financial future! Today's economic times require informed citizens skilled in managing their finances. This class will help you create your own financial goals and budget, learn how to earn a high credit score, calculate/complete your 1040EZ federal tax return, and learn the details of saving, investing, banking, taxes, and insurance. You will complete a job application, resume, and cover letter to use as templates in your future job search.

BUS312 Sports & Entertainment Marketing**.5 Credit Grades 11-12**

The sports and entertainment industry is a major component in the field of business and marketing. The industry is all around us – not just at ballparks and theaters, but at schools, on television, radio, in stores and on the Internet. This course will emphasize the importance of the industry and the role it plays in our society. Students will explore both the sports industry and the entertainment industry, focusing on real world business perspectives. Students will participate in marketing simulations, projects, and teamwork activities.

BUS315 Small Business Management**.5 Credit Grades 11-12**

Make money doing something you love! This is a half-year course designed to provide a background in starting and managing a small business. We will focus on seven key content areas: students' role in a free market, the pillars of a free market economy, how the economies of the world work, business cycles, economics, entrepreneurship, and career development. Students will incorporate these content areas into the development of a modified business plan for a business of their own choice. You will also complete a job application, resume, and cover letter to use as templates in your future job search.

NOTES:

- **Grade 10 with permission of instructor**
- **This course satisfies the .5 credit for graduation requirement for Economics.**

Information & Computer Technology

All high school students must earn .5 credits in Information & Communications Technology as required by the State. Students can satisfy this requirement by taking a course from the Information & Computer Technology offerings or by taking an identified elective in another curricular area

ICT100A Computer Fundamentals

.5 Credit

Grade 9

(Formerly Keyboarding/Software Applications) If you struggled with the 8th grade portfolio and/or you do not feel comfortable with computers, then this course is designed for you. Strong emphasis will be given to proper keyboarding technique and mastery of the alphabetic and numeric keyboard. You will be given assistance and time to become more comfortable with software applications while improving your keyboarding speed and accuracy. Completing written assignments for your other classes will become easier and less of a struggle.

PREREQUISITE: 8th grade teacher approval for incoming freshmen.

ICT105 Microsoft Office Specialist-Word 2010

.5 Credit

Grades 9-12

No matter your career field, you will most likely need strong Word skills. Challenge yourself to learn advanced word processing skills. Certification proves your skills to employers and can help you climb the career ladder faster. Time-saving techniques and shortcuts will be emphasized, as well as how to produce properly formatted business documents.

PREREQUISITE: Keyboarding proficiency of 25 words per minute.

FEES: Certification test \$125 as of December, 2015.

NOTES:

- **Certification test is optional, but highly recommended.**
- **Colleges may accept certification for college credit.**

ICT106 Microsoft Office Specialist-Excel 2010

.5 Credit

Grades 9-12

Spreadsheet skills can make data collection and reporting easy. But if you don't know how to use the software it can be an exercise in frustration and wasting time. You will learn to create spreadsheets with embedded charts, use formulas, functions, and formatting to customize the worksheet. You will learn highly advanced skills such as what-if analysis, financial functions, data tables, and template creation. Time-saving techniques and shortcuts will be emphasized as well as how to produce business invoices, payroll, financial reports, etc. Certification proves that you have the skills that employers seek and can help you climb the career ladder.

PREREQUISITE: Keyboarding proficiency of 25 words per minute.

FEES: Certification test \$125 as of December, 2015.

NOTES:

- **Certification test is optional, but highly recommended.**
- **Colleges may accept certification for college credit.**

ICT 107 Microsoft Office Specialist-Access 2010

.5 Credit

Grades 10-12

Database management is a growing, lucrative career field. This course can be your stepping stone to such a career. You will learn database concepts and design, and how to create data tables, datasheets, and forms as well as how to retrieve the needed data for reports. Have you ever wondered how the school determines which students are old enough by a specific date to donate blood in the annual blood drive? A database provides the answer in seconds, but the database manager needs to know how to ask the question. Certification proves that you have the skills that employers seek and will help you climb the career ladder.

PREREQUISITE: Keyboarding proficiency of 25 words per minute.

FEES: Certification test \$125 as of December, 2015.

NOTES:

- **Certification test is optional, but highly recommended.**
- **Colleges may accept certification for college credit.**

ICT 201 Intro Web Page Design & Desktop Publishing .5 Credit Grades 10-12

This is an introductory course to learn HTML programming basics used in the creation of Web pages. Students will plan and develop a basic Web site. This course will also give students hands-on experience creating professional looking brochures, flyers, and advertisements. Emphasis will be placed on creating, editing, and text-layout as well as other features. The Internet will be used as a resource for the assignments.

ICT 301 Web Page Design II .5 Credit Grades 11-12

This course is an extension of the Web Page design concepts learned in the Web Page Design and Desktop Publishing course. The introduction of additional design topics including more effective web site navigation, balanced use of graphics, text, and color will be covered. Students will plan and develop a well-designed Web site.

PREREQUISITE: Intro to Web Page Design & Desktop Publishing.

ICT 305 Introduction to Computer Programming .5 Credit Grades 10-12

Introduction to Computer Programming is a course designed to introduce high school students to a high-level computer programming language. The skills learned in this course are applicable in many fields beyond the walls of John Stark including: computer science, mathematical modeling, statistical analysis tools, and business applications. Students will learn how to program in a high-level computer programming language. The course will cover basic programming concepts, introductory object-oriented design, code compilation, debugging, and human interface design.

PREREQUISITE: Algebra I or the completion of the Integrated Math sequence.

ICT 550 Computer Science A 1 Credit Grades 11-12

This course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. Other topics include declaration methods, control methods, testing & debugging software, algorithm analysis, and ethical and social implications of computer programming.

PREREQUISITES: Algebra II or Intro to Computer Programming or teacher permission.

NOTES:

- **Sophomores may request this course with teacher permission.**

- This course will not be offered in the 2016-2017 school year.

CAREER OPPORTUNITIES

OAP902 Work Experience

.5 Credit Grades 11-12

This course presents a unique opportunity for a student to understand successful workplace practices and explore careers. The course includes a classroom component that addresses job-related skills and issues, combined with on-site experiences in an approved workplace (approximately 45 hours). The student will work (non-paid) under supervision in a selected business or service setting. The school will contact employers and establish an appropriate job-site for qualified students. Credit is based on work-site evaluations, weekly documented hours at the work-site, and successful completion of classroom assignments.

NOTE: Students must provide their own transportation.

OAP903 Internship

.5 Credit Grades 11-12

This internship program provides a worksite experience in which a student, with guidance and support at the workplace, completes a planned series of learning objectives or projects designed to give a broad understanding of the chosen career or job interest (approximately 70 hours). The student will be able to apply school based learning and knowledge to real-world settings. The school will contact employers and establish an appropriate job-site for qualified students. Credit is based on employer evaluations, documented worksite hours and a final project/demonstration.

PREREQUISITES: Successful completion of Work Experience and students must provide own transportation.

FAMILY AND CONSUMER SCIENCE

Family & Consumer Science (FCS) is available to students in every grade level. The focus of the curriculum involves the interrelationships between personal well-being, family, community, and career. FCS integrates the knowledge taught in other disciplines and applies it to real-life experiences. FCS equips students for the future to: function as family members, consumers, citizens and wage earners. FCS provides students opportunities to develop the knowledge, skills, attitudes, and behaviors necessary to be successful in today's society. **Foods and Nutrition and Child Development satisfy the additional .5 credit for PE, Health, and Wellness. They do not satisfy the PE I, PE II, or Health requirements.**

FCS 101 Foods & Nutrition

.5 Credit Grades 9-12

This popular class is designed to introduce the students to basic nutrition and meal planning. The formation of good work habits and safety habits is also an important part of the course. Students will demonstrate basic cooking techniques while working in the kitchen. Some of the foods prepared in class include breads, pasta, cookies, cheese, fruits, vegetables, and pizza.

NOTE: This course satisfies the additional .5 credit graduation requirement for PE, Health, and Wellness.

FCS 102 Basic Sewing .5 Credit Grades 9-12

This course is designed to teach basic sewing construction. Units will include the use and care of the sewing machine, understanding fabrics, and the selection and use of patterns when sewing. Projects include sports bags, simple garments, pillows, sewing with fleece, and various mini projects.

FCS 202 Child Development .5 Credit Grades 10-12

This course will serve as an introduction to child development, parenting, and childcare. Students will review reproduction and changes that occur during prenatal development, including positive and negative influences. Preparation for childbirth, caring for a newborn, positive parenting techniques, and characteristics of development at each stage of early childhood are also explored. Special topics studied include child abuse and neglect, the importance of good prenatal care, preparation for parenthood, and how to deal with emergency situations.

NOTE: This course satisfies the additional .5 credit graduation requirement for PE, Health, and Wellness.

FCS 203 Fashion & Clothing .5 Credit Grades 10-12

Are you interested in learning about the fashion industry? Would you like to create your own clothes? Come join this “hands-on” project-oriented class. You will learn about clothing construction and fashion appreciation with a safe and correct use of sewing machines. Several projects, which vary according to student’s abilities, will give students an opportunity to create several articles of clothing. Pattern selection and interpretation, wardrobe planning, textiles, and fashion history from the 1500’s to the present are topics to be covered. Students will gain an understanding of career opportunities in fashion, design and technology.

NOTE: This course satisfies the .5 credit graduation requirement for Fine Arts.

FCS 302 International Cooking .5 Credit Grades 10-12

Travel the world in your kitchen. This class is your “passport” to learning! Study of ethnic and regional foods will give you an opportunity to learn the customs, special ingredients, and cooking techniques used in other countries. You will develop skills in preparing foods such as salads, breads, soups, main dishes, and a variety of desserts. Culinary traditions, history and lore, as well as cultural protocols related to food are discussed.

FCS310 Independent Living .5 Credit Grade 11-12

This course is designed to prepare students for the day-to-day challenges of adult living. Regardless of what life style you choose, whether you go to college or start a career right away there are many considerations. This course will cover many aspects including career choices, applying for a job, finding an apartment, reading a lease, handling personal finances, meal management and nutritional aspects of food and food safety.

TECHNOLOGY EDUCATION

Technology Education offers students hands-on classes, which build confidence in working with hand and power tools. In addition to these specific skills, students will also learn about safety in the workplace, decision-making and problem solving, self-management, and the ability to work with others.

TEC103 Wood Manufacturing Technology **.5 Credit** **Grades 9-12**
(Formerly Introduction to Technology Education) This is a basic introduction to the area of material and processing with wood. A strong emphasis is placed on safety. Students are required to pass various safety tests on a variety of machines and topics. They are also to conduct themselves in a safe manner. A variety of small woodworking projects will be produced. Students will also be introduced to computer aided manufacturing by learning how to use the CNC (computer numeric code) machine, which will allow them to develop projects with ArtCam (computer aided manufacturing) express software and the I-carver engraving machine.

TEC 102 Introduction to Metalworking **.5 Credit** **Grades 9-12**
This course will offer the basic introduction into the area of material and processing with sheet metal. A strong emphasis is placed on safety. Students will be required to pass various tests on a variety of tools and machines. They will conduct themselves in a manner that will promote safety in regard to themselves and other students. A variety of techniques in working with sheet metal will be demonstrated and students will develop a small metalworking project.

TEC 110 Introduction to Carpentry **.5 Credit** **Grades 9-12**
Introduction to Carpentry is an entry-level class open to all students in grades 9-12. The course will deal with the basic principles of Carpentry. Students will learn the basic names of structural building parts, and how these parts are assembled. Students will incorporate safety issues associated with carpentry. They will work in teams to construct a small shed or similar structure.

TEC 114 Building Skills for the 21st Century **.5 Credit** **Grades 9-12**
Building Skills for the 21st Century prepares high school students for careers in the construction industry. This course will provide an opportunity for students to transfer what they have learned directly to work, personal projects, or a career. This is a hands-on course where students learn the skills in different construction trade areas and will learn real-life applications of math and science. These areas are divided between two semesters. Students may choose one or both semesters. The following topics will be covered: Blueprint Reading, Drywall, Electrical, Hand Tools, Plumbing, Power Tools, Tile Setting, and Wall Framing.

PREREQUISITE: Introduction to Wood Manufacturing Technology/Technology Education

TEC 116 Small Engine Repair and Overhaul .5 Credit Grades 9-12
(Formerly Introduction to Small Engine Repair) Students will study in depth various engine systems such as ignition, carburetion, and lubrication as well as engine construction and design. Much of the coursework will require students to perform a complete tear down and reassembly on an L-head or an overhead valve small engine. Students may perform an overhaul on their own engine, with instructor approval. Students will learn the steps required to perform an overhaul including use of micrometers to measure engine parts and will extensively use the service and parts manual during the course.
SUPPLIES: Students will be responsible for any parts needed for their engines.
PREREQUISITE: Introduction to Outdoor Power Equipment Repair and Maintenance.

TEC 201 Advanced Woodworking .5 Credit Grades 9-12
This course will offer the student the opportunity to work with wood and wood joints. The students will learn different ways to join wood together by building wood projects. This is a hands-on course. The use of different hand tools and power tools will be required. A strong adherence to safety rules and procedures will be followed.
PREREQUISITE: Intro to Wood Manufacturing Technology/Technology Education.

TEC117 Intro. to Outdoor Power Equipment Repair and Maintenance .5 Credit Grades 9-12
Students will study two and four stroke cycle engines as well as various engine systems such as ignition, carburetion, lubrication and cooling. Students will also study and perform routine maintenance and repairs on many different types of outdoor power equipment such as chainsaws, trimmers, lawn mowers, snow blowers, tillers and generators. Students will work on shop equipment and are encouraged to bring in their own equipment for repairs.

TEC 220 Drawing & Design I (CAD) .5 Credit Grades 9-12
This is an introductory course where students will learn the universal language of detailed drawings, emphasizing skills development in sketching and Computer Aided Design. Students will begin learning manual sketching techniques to produce multi-view dimensioned drawings. They will then progress to learning basic modeling and drawing techniques using “state of the art” computer aided drafting software. All students will complete a relevant career exploration assignment as well.

TEC 221 Drawing & Design II (CAD) .5 Credit Grades 9-12
This course is a continuation of Drawing and Design I and will explore more advanced functionality of Computer Aided Design, furthering the student’s understanding of the use of computers in the drafting industry. Topics covered will include preparation of fully detailed drawings and assembly drawings. Depending on student needs, concepts of computer-aided manufacturing can also be explored.
PREREQUISITE: Drawing and Design I.

ENGLISH

ALL STUDENTS ARE REQUIRED TO BE ENROLLED IN AN ENGLISH COURSE EACH SEMESTER.

All students are required to earn 4 credits of English and to take coursework each year in order to meet graduation requirements. Students will take English 9 & 10 during their first two years of high school and either American Studies or Advanced Placement English Language and Composition as juniors. During senior year, students choose from a variety of courses to meet their Senior English requirement. Students must choose two semester-long electives or enroll in one of the three full-year Senior English classes: Senior English Seminar, College Composition, or Advanced Placement English Literature and Composition. An application process is required for both Advanced Placement Courses - English Language and Composition and English Literature and Composition.

English 9

1 Credit

Grade 9

ENG110 English 9 Honors

ENG101 English 9

Ninth grade English covers the broad spectrum of language arts, including reading, writing, researching, speaking and listening. The content of the course is designed to complement the World Cultures and Geography curriculum, so the selections read will often relate to the topics studied in the student's Social Studies class. The student will explore the short story, the play, the novel, and poetry, as well as nonfiction pieces. Vocabulary development and language usage are integral parts of the program. The writing process is reinforced through descriptive, narrative, and expository papers. The ability to develop ideas in a logical order and to write for a variety of audiences and purposes is a primary focus.

English 10

1 Credit

Grade 10

ENG210 English 10 Honors

ENG201 English 10

Tenth grade English continues to develop students' critical reading, writing, researching, speaking and listening, but the major emphasis is on writing and literature study. Students will further develop their narrative, descriptive, explanatory, and persuasive writing skills. Grammar and vocabulary are integrated into the writing activities. Students will read a variety of genres, including novels, plays, poetry, short stories, and nonfiction works. The literature and primary sources will often involve selections related to Western Civilization

ENG560 AP English Language and Composition

1 Credit

Grade 11

This course is a chronological survey of the canon of American Literature. In studying the chronological spectrum of American Literature, we will explore reasons why perceptions about individualism, society, the environment, and human motivation changed as groups of writers were identified as Puritans, Rationalists, Romantics, Transcendentalists, Social Critics, Realists, and Modernists. A pivotal topic will be how the author explains his/her world and himself/herself. Whenever possible, our study will complement the AP US History curriculum. Students in this seminar-style class should have strong independent

reading skills and be prepared to complete analytical assignments outside of class. This course prepares students to take the Advanced Placement Language and Composition exam in May; students who successfully complete the exam may qualify for up to one year's credit in English at their selected college.

PREREQUISITES: Application & teacher recommendation required.

NOTES:

- **This class fulfills the English 11 requirement and must be taken with AP United States History.**
- **Summer reading will be assigned.**
- **Space in this class is limited.**

FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

English 11 / American Studies

2 Credits

Grade 11

ENG/SOC302A American Studies

American Studies is a combined U.S. History and American Literature course that examines the broad spectrum of American culture through its history and literature, as well as its art, music, and film. Themes include Puritanism, the individual, Romanticism, the Industrial Revolution, expansion, civil rights, and the role of the U.S. in the world at large. Students are challenged through small and large group activities, demonstrations, and frequent reading and writing assignments.

NOTES:

- **This class fulfills both the English 11 and the US History requirement for graduation. In the event that a student fails this course, the teachers will determine whether one or both credits need to be remediated.**
- **The class meets for one block each day.**
- **It is important to remember that this class is two courses; assignments and expectations reflect the combined nature of the course.**

English 12

During senior year, students choose from a variety of courses to meet their Senior English requirement. Students must choose two semester-long electives or enroll in one of the three full-year Senior English classes, Senior English Seminar and Advanced Placement English Literature and Composition. **Juniors may take a senior English class as an elective, if space is available. This course would not meet the student's junior English requirement (American Studies).**

ENG401 Senior English/Fiction Writing

.5 Credit

Grades 11-12

This course is a writing workshop for students who like to write, who want more time to write, and who would like to produce an impressive portfolio of their own fiction. Students learn techniques for expanding narratives, crafting characters, and creating settings and original plots. Reading modern short stories is a complement to the writing process. Students are encouraged to experiment in their choice of genre, voice, and writing style. Sharing of work through peer evaluation, student/teacher conferencing, and whole class reading are integral parts of this course.

ENG402 Senior English/Women's Studies

.5 Credit

Grades 11-12

A class open to both genders, this course focuses not only on issues faced by young women of today, but also on commonalities between current and historical issues faced by women. The course involves analysis of women's social, economic, and spiritual roles as shown in current events and in literature. Books read may include *Reviving Ophelia*, *The Handmaid's Tale*, *Speak*, *Odd Girl Out*, and *Queen Bees and Wannabes*. Students are expected to participate in class discussion, as it is an important part of the course.

ENG404 Senior English/Film Studies .5 Credit Grades 11-12

This course is for students who enjoy films and who are committed to watching them seriously. This course is designed to teach students how to read a film; students will study how camera editing and sound techniques help films deliver a message. Students will watch some of the great classics, as well as some newer films, and analyze them in critical analysis papers. Film terminology and history are stressed. The reinforcement and refinement of essential skills in language, composition, critical reading and viewing, along with research regarding film topics are also emphasized.

ENG406 Senior English/Graphic Novels .5 Credit Grades 11-12

If a picture is worth a thousand words, what happens when you put words and pictures together? This course will examine the elements and range of graphic novels from superhero stories to stories that shed light on history and politics. We will distinguish between comics and sequential art narratives and explore the long history of each. The principal text for the course will be *Understanding Comics* by Scott McCloud. We will also study acclaimed graphic novels by Neil Gaiman, Will Eisner, Alan Moore, and Art Spiegelman.

NOTE: This course will not be offered in 2016-2017.

ENG408 Senior English/ Poetry Workshop .5 Credit Grades 11-12

This course is a writing workshop for students who like to write poetry and want to produce an impressive portfolio of original work. Students learn to effectively use techniques such as imagery, rhyme, meter, and figurative language to enhance their writing. Students also learn several fixed forms of poetry as well as writing free verse. Reading and analyzing published poetry is a complement to the writing process sharing work through peer evaluation, student/teacher conferences, and whole-class reading is an integral part of the course.

ENG412 Senior English/ The Detective Novel & True Crime .5 Credit Grades 11-12

The Detective Novel and True Crime are best selling genres today due to their compelling content and readability. Students in this course will read detective novels and stories by authors such as Raymond Chandler, Sue Grafton, and Robert Parker. They will examine true crime classics such as *In Cold Blood* and *Helter Skelter*, as well as newer titles like *The Devil in the White City*, the story of America's first serial killer (a New Hampshire native). In spite of their gruesome subject matter, the detective and/or true crime story can provide insight into human psychology, sociology, the judicial system, journalistic ethics, and forensic science. Students and their parents should understand the often-disturbing nature of this literature before a student signs up for this course. Students will write responses to what they read as well as complete a research paper.

ENG417 Senior English/Heroes and Villains: The Best and Worst of Society

.5 Credit Grades 11-12

This course will examine the concept of heroes and villains within society. It will examine how society makes heroes and villains and what these heroes and villains represent about their particular society. The course will also examine whether or not there are universal examples of villains and heroes that cross time and societies.

NOTE: This course will not be offered in 2016-2017.

ENG431 Senior English/ Shakespeare I: From Script to Screen*

ENG432 Senior English/ Shakespeare II: From Page to Stage*

1 Credit (.5 Credit/semester) Grades 11-12

This course will examine what makes the works of Shakespeare so enduring and so ripe with production possibilities. While studying Shakespeare's comedies, histories, and tragedies, students will examine how Shakespeare's characters and themes still ring true today. In this course, not only are students scholars but also they are actors, directors, and critics. We will study modern adaptations like *O; Scotland, PA;* and *She's the Man* as well as more classic film and stage interpretations of the plays alongside the original texts. In the second semester, students will continue to study Shakespeare's comedies, histories, and tragedies with an emphasis on bringing the play to life. A goal of the second semester will be to share our understanding of Shakespeare with a wider audience through formal and informal presentations and performances. This Shakespeare class is designed for college-bound students who have an interest in dramatic literature and film. Students will be expected to read aloud and perform parts of plays being studied in addition to writing formal and informal papers. Active participation is essential.

ENG434 Senior English/British Literature*

.5 Credit Grades 11-12

What do Grendel, Lady Macbeth, and Bertha Rochester all have in common? How did Jonathan Swift propose to solve the poverty problems in 18th century Ireland? What did happen to "My Last Duchess"? These questions and others will be answered in British Literature. This course is a chronological survey of highlights of the canon of British Literature. Students should have strong independent reading skills and be ready to engage in seminar-style discussions in class and write analytically outside of class.

ENG550 AP English Literature and Composition

1 Credit Grade 12

This course engages students in the careful reading and critical analysis of literature from a variety of periods and genres. Students need strong reading and writing skills, along with independent study skills and self-motivation. This course prepares students to take the Advanced Placement Literature and Composition exam in May; students who successfully complete the exam may qualify for up to one year's credit in English at their selected college.

PREREQUISITES: Application and teacher recommendation.

NOTE: Space in this class is limited.

FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

ENG570 College Composition***1 Credit****Grade 12**

This year-long college-level English course is designed to teach students to write clear, vigorous prose and analyze college-level readings. College Composition is geared toward students interested in earning college credit that may satisfy their college freshman English requirement, but may not be interested in taking Advanced Placement English Literature and Composition.

PREREQUISITE: Teacher recommendation and at least proficient in American Studies.

NOTE: This is a Project Running Start Course.

FEES: Students interested in earning NHTI credit will need to pay a \$150.00* registration fee within the first few weeks of the course.

* Registration fee as of December, 2015.

ENG420 Senior English Seminar**1 Credit****Grade 12**

This year-long senior English class provides students with highlights from some of the most popular senior English classes like Film Studies, Heroes and Villains, and Gothic Tales. Students will develop their reading, writing, and analytical skills that will help prepare them for success in selective post-secondary programs.

The following courses are English Elective courses. They do not meet the English requirement for graduation.

ENG403A Mass Media/JSR News**.5 Credit****Grades 11-12**

How can people keep from being manipulated by commercials? What are the messages in popular TV shows? How can people determine whether or not the news is biased? What is the impact that the media have on our lives? Through reading written and visual texts and writing newspaper articles, blog posts, and journal entries, students in this course will sift through the varied media that bombard us every day. A goal of the course is to create authentic applications for the various topics we study by creating print advertisements, commercials, and news broadcasts.

ENG662 Expressive Writing Workshop**.5 Credit****Grades 9-11**

This is an elective course for freshmen, sophomores, and juniors who like to write. Students will be able to explore a variety of writing genres, such as poetry, fiction and personal narrative/memoir. The focus of the class will be to develop a writing community in which students will develop their own personal writing styles with the support of their peers. Sharing, responding, and publishing will be encouraged.

ENG664 Readers' Circle**.5 Credit****Grades 9-11**

Do you love to read, but wish that you had more time to explore new and exciting titles? Do you read a ton, but feel as though there is no one to talk to about your latest literary adventures? Or do you just think that you might benefit from extra time to read? If you answered "yes" to any of these questions, you should consider signing up for The Readers' Circle. In this course, you will have the opportunity to read contemporary and classic

literature. In addition, you will also have the opportunity to select titles of your own choosing.

Reading and Writing Support Classes

The high school reading program includes classes that are **required** for students who demonstrate specific areas of need that are identified through assessments that are determined appropriate by school personnel. All reading classes are for elective credit.

Literacy Tech I and II These courses offer various opportunities for students to improve their abilities to use the written word through specific instruction in the areas of reading, writing, speaking, and listening. These classes are taught by reading specialists and instruction focuses on remediating reading and writing skills.

Content Literacy is a class designed to assist students with reading and writing needs specific to the content area courses, specifically English and social studies. Pre-teaching vocabulary, re-teaching difficult concepts, practicing the writing process, and developing comprehension strategies are just some of the skills that are taught and practiced in Content Literacy classes.

Reading Workshop classes consist of lessons and activities from the Language! Program and Wilson Reading. Instruction occurs in small groups and integrates reading, writing, spelling, vocabulary, grammar, and spoken English. Also, texts and materials from English and Social Studies classes will be used in order to pre-teach vocabulary and re-teach difficult concepts students are learning in class. This reading course will also emphasize the study and application of a variety of literacy tools and strategies. Students will engage in both formal and informal student-led discussions. Regardless of what sort of reading shape you are in, you are bound to become a better reader by the end of the course!

FINE AND PERFORMING ARTS

Fine Art courses include the Theatre Arts, Visual Arts and Music and are an integral part of our educational program. The arts stimulate creativity in problem solving. They challenge students' perceptions and teach them to look at the world around them in new ways. By studying the arts, students develop skills in concentration, organization, problem solving, effective listening, artistic judgment, leadership, and self-discipline. Students need .5 credit to meet graduation requirements.

VISUAL ARTS

The Art Department offers a variety of courses designed to introduce students to the basic principles in art. Although it is not required, it is recommended that students take either 2-D Art or 3-D Art as their first course in the sequence of art classes pursued. Entering freshmen are encouraged to enroll in an introductory course so that they may take more advanced courses in their last three years of high school. Students planning on taking AP

Studio Art as a senior will need to map out a plan that includes at least one art elective each year.

FA110 2D Art & Design

.5 Credit Grades 9 -12

This studio course explores the Elements and Principles of Art through two-dimensional design. Students will learn the basic concepts of drawing, perspective, color theory, painting, printmaking and collage. Students will learn technical skills while working with the expressive possibilities of diverse media such as graphite, ink, acrylic paint, watercolor, and pastels. Art History will be included in the curriculum throughout the semester.

FA112 3D Art & Design

.5 Credit Grades 9-12

This studio course explores the Elements and Principles of Art through traditional and contemporary sculpture. Students will learn additive and subtractive methods of working with a wide variety of materials such as wire, plaster, wood, clay, and found objects. Students will learn technical skills while problem solving as they explore the expressive possibilities of diverse media. Students will also study the historical context of specific sculptures, sculptors, and movements. Students will also learn safe and appropriate use of tools and materials.

The following courses are open to all students in grades 10-12. While not required, it is recommended that students have taken either 2D or 3D art, unless otherwise noted.

FA104 Ceramics I

.5 Credit Grades 10–12

Ceramics I will predominately explore hand-building techniques. Students will learn about various glazes and firing techniques. Students will create functional and sculptural pieces, understand and practice safety measures, and explore the history and cultures, which have contributed to ceramic production.

FA115 Drawing

.5 Credit - Fall Semester Grades 10-12

This drawing course expands upon prior skills gained in the 2D or 3D class. Students will study various methods of drawing with an emphasis on observational work. Through a variety of media such as pencil, charcoal, pastel, and ink students will gain the skills to render realistic drawings. Subject matter may include found objects, portrait, landscape, and figure. Art History will be introduced as a means to understand the drawing styles, media, and artists of certain time periods.

FA116 Painting

.5 Credit - Spring Semester Grades 10-12

This painting class builds upon skills and knowledge learned in prior coursework. Students will work with a wide variety of painting media including watercolor, acrylic, ink, and oils while working from direct observation. Techniques such as blending, over and under painting, texturing, and layering will all be explored. Subject matter may include found objects, landscape, and portrait. Art history will be introduced as a means to understand the drawing styles, media, and artists of certain time periods.

FA202 Photography I

.5 Credit Grades 10-12

(Formerly Introduction to Photography) This course will teach students how to shoot and develop photographs beyond the everyday snapshot. Students will primarily be using a film camera and printing images in the darkroom though some work will be done digitally using Adobe Photoshop. The elements of art and principles of design and a variety of compositional techniques will be explored. Topics of study include the history and technology of photographic arts, careers in photography, cityscape fieldwork, environmental portraits, and still life abstractions.

NOTE: Students are encouraged to be equipped with a SLR film camera, but it is not required.

FA205 Printmaking & Mixed Media .5 Credit Grades 10 -12

(Formerly called Printmaking: Etching to Silk Screening) This is an advanced art course suitable for students who want to learn how to make multiples of their images. Students will learn how to create a variety of printmaking techniques including: embossments, monotypes, woodcuts, and etchings. A majority of the class will focus on silk screening using both the stencil and photo emulsion process. Students will need to engage in image making using basic drawing and computer techniques. Topics of study include the history and technology of printmaking, contemporary printmakers, careers in printmaking, and fieldwork pertaining to the subject matter.

FA206 Sculpture & Clay .5 Credit Grades 10-12

Students will work with a variety of media including wire, wood, plaster, molds, clay, and stone. Emphasis will be on additive and subtractive methods of sculpting while solving complex visual problems. Students will gain an understanding of traditional and contemporary sculpture as it relates to their own work through visual presentations and research. Students will learn technical skills, safe and appropriate use of tools and materials, and gain an understanding of the expressive possibilities of diverse materials.

NOTE: This course runs only in alternating years beginning with an odd # (i.e. 2017-2018).

FA207 Graphic Arts & Design .5 Credit Grades 10-12

This is an advanced course most suitable for juniors and seniors. This course combines traditional graphic design with computer technology. Students will study design techniques focusing on the elements and principles of design. Color theory and page layout will be explored through the creation of fliers, brochures, logos, business cards, and posters. This class takes place primarily in the computer graphics lab using the Adobe Suite: Illustrator, Photoshop and In Design. Some artwork will be created by hand with pen & ink and silk screening techniques. Students will be introduced to digital photography and file formats including various digital printing techniques. This course will approach creative problem solving from the graphic designer's perspective. Topics of study include service learning projects, careers in design, and fieldwork pertaining to the subject matter.

NOTE: This course satisfies the .5 credit graduation requirement for either ICT or Art, but not both.

FA208 Ceramics II: Advanced Studies in Clay .5 Credit Grades 10-12

This is an advanced class in which students will explore various modes of working with clay such as wheel throwing and hand building. Students will focus on creating their own individual body of work based on themes and more complex clay techniques. An in-depth study of perfecting work on the pottery wheel will be explored with such topics as vases,

mugs, teapots, and lidded forms. Students will also experience Raku and/or Smoke Firing and explore advanced glazing and coloring techniques such as wax resist, slip, and graffito. Contemporary clay artists and local NH Potters will be studied.

PREREQUISITE: Ceramics I.

FA210 Glassworks .5 Credit Grades 10-12

Students interested in working with glass will learn the process of glass fusing/kiln forming and mosaics. The process of selecting glass from cutting and designing, to kiln preparation, firing schedules, annealing, and glass compatibility. Techniques to be explored include the use of frit, stringers, and confetti; inclusions; glass paint; full and tack fusing, slumping, and draping; cold working; and a variety of types of glass to create dramatic and artistic fused glass creations including plates, bowls, coasters, and jewelry.

Glass mosaics will also be created using modern materials such as recycled stained glass, mirror pieces and “gems.” Students will learn how to prepare a surface or substrate, safety in cutting and nipping glass pieces and choices of cements and adhesives. If time permits, stained glass will also be introduced as well as independent projects such as furniture glass inlay and free form glass sculptures.

NOTE: This course runs only in alternating years beginning with an even # (i.e. 2016-2017).

FA304 Art History: From Greeks to Graffiti - Fall Semester .5 Credit Grades 10-12

Art History is an introductory course that explores artwork from various periods in time with a heavy focus on Greek and Egyptian mythology and history, Medieval art and the Renaissance. This is an excellent course for students who are interested in art but do not necessarily want a “hands on” experience. The course focuses on the different techniques and styles utilized through history to tell stories and record humanity.

NOTE: Students interested in studying Art history may also enjoy taking GTC650 Classical Voyage 2017 to Greece. See the complete course description listed in the Global Travel Curriculum section.

FA307 Photography II .5 Credit Grades 10-12

(Formerly called Darkroom Photography) This course builds upon the knowledge and skills learned in Intro to Photography/Photography I. Students will be using 35mm and/or 120 film for darkroom printing and experimental exposures. They will further explore a variety of equipment including lens, filters, and tripods and apply both natural and studio lighting. Emphasis is placed on the creation of a portfolio of photographs that demonstrates a personal theme, skill, and creativity. Topics of study include contemporary photography, panoramic landscapes, photomontages, cityscape fieldwork, and careers in photography.

PREREQUISITE: Intro to Photography/Photography I.

NOTE: Students are encouraged to be equipped with a SLR film camera, but it is not required.

FA306 Digital Art & .5 Credit Grades 10-12

(Formerly called Digital Photography) This course builds upon the knowledge and skills learned in previous art classes. Students will learn to use a DSLR and automatic digital cameras to create dynamic images in Adobe Photoshop. Students will further explore color theory, as well as compositional and creative techniques. Students will be introduced to file formats including jpeg and raw, color correction, and exposure controls. Topics of study

include Photoshop layers, photo restoration, panoramas, photomontages, contemporary photography, and careers in photography. Students will work with drawing tablets and explore digital drawing.

PREREQUISITE: Graphic Arts and Design or Intro. to Photography/Photography I.

NOTE: Students are encouraged to be equipped with a digital camera, but it is not required.

FA301 Advanced Drawing & Painting **1 Credit** **Grades 11-12**

This course is designed for art students interested in continuing their study of drawing and painting at an advanced level or plan on taking AP Art: Studio Drawing. Through a variety of media such as acrylic, oils, watercolor, charcoal, ink, and pastels, students will increase technical skill. A wide range of subject matter and styles will be explored including still-life, portraiture, abstraction, landscapes, and mixed media. The course will rely upon direct observation in order to strengthen individual styles and skills.

PREREQUISITE: Drawing and Painting or teacher permission.

FA550 AP Studio Art: The Drawing Portfolio **1 Credit** **Grades 11-12**

This rigorous curriculum is derived from the College Boards Advanced Placement Studio Art program, which believes secondary school students are capable of performing at the college level. The goal is to complete the AP portfolio requirements and send portfolios to the College Board in May during the nationally scheduled AP Studio Art Portfolio collection.

PREREQUISITE: Advanced Drawing & Painting or teacher permission.

FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

THEATRE

The following courses in theatre are designed to give practical experience to students that they may apply in a variety of career paths. Both performance and technical classes provide specific theatre content, and help students practice critical thinking, engage in creative problem solving, and build self-confidence.

THR102 Acting I **.5 Credit** **Grades 9-12**

Acting I provides students with a low-risk environment in which to work on performance skills. Students will learn how to develop a character for performance. They will participate in exercises in movement, voice, imagination, observation and concentration to strengthen these individual skills. They will also learn the process of analyzing, creating and rehearsing a character - a process that requires critical thinking, goal-setting and disciplined practice techniques. Students will also practice collaboration and cooperation as they work with their classmates in scene study. This class prepares students for Acting II, Improv! and Directing.

THR108 Technical Theater I **.5 Credit** **Grades 9-12**

In this class, students will be introduced to the backstage process of putting on a theatrical production. After this introductory unit, student will have the opportunity to choose a technical area of concentration and will begin work on building the technical aspects for a one-act play that will be presented for an audience at the end of the semester. The areas of concentration that students can choose are: Stage & Publicity Management, Costume, Hair & Make-Up, Set & Props or Lights & Sound. Once a concentration is chosen, students will

learn the tools and techniques of the chosen area and be introduced to the process of designing and refining a design for stage production.

NOTE: Attendance is required at the evening performance of the one-act play presented for an audience at the end of the semester.

THR208 Technical Theatre II **.5 Credit** **Grades 9-12**

Students who are experienced in the basic tools and techniques of a chosen concentration of technical theatre (Stage & Publicity Management, Costume, Hair and Make-Up, Set & Props or Lights & Sound) will be ready to take this course, in which they will learn how to imagine and create original designs for a theatrical production. Students in this course will be involved in choosing a script for performance and learn management responsibilities throughout production. They will create designs in a professional level of detail, and these designs will be featured in a production in front of an audience at the end of the semester.

PREREQUISITE: Technical Theater I or Teacher Permission

NOTE: Attendance is required at the evening performance of the one-act play presented for an audience at the end of the semester.

THR202 Directing **.5 Credit** **Grades 10-12**

The student will learn the basics of choosing a script. Through analyzing, staging, and rehearsing that script, directing students will create a comprehensive vision for each piece they direct. That vision will guide their choices in stage composition and technical design. Students will be expected to act in scenes directed by fellow students.

PREREQUISITE: Theatre Production Workshop and Acting I.

NOTE: This course runs only in alternating years beginning with an odd # (i.e. 2017-2018).

THR205 Improv! **.5 Credit** **Grades 10 -12**

So, you want to be like those guys on *Whose Line Is It, Anyway?* This class is the place to learn how to do improv well. Students will learn and practice various forms of improv and explore all of the ways that improvised theatre is used in performance, in rehearsal, and in careers outside of theatre.

PREREQUISITE: Theatre Production Workshop or either Tech Theatre class.

NOTE:

- **This course runs only in alternating years beginning with an even #(i.e.2016-2017).**
- **Students will prepare for and perform in at least one performance for a live audience outside of the regular school day.**

THR207 Acting II **.5 Credit** **Grades 9-12**

This more advanced performance class focuses on developing the skills of the individual performer. Students will continue to build their analytical skills and communication skills. They will read about different theories of acting, and practice various techniques and styles of acting. This class provides an authentic opportunity to practice audition, rehearsal and performance skills. Students in this class will prepare monologues for auditions, practice skills in scene study and prepare a role for a public performance at the end of the semester.

PREREQUISITE: Acting I or Teacher Permission

NOTE: Attendance is required at the evening performance of the one-act play presented for an audience at the end of the semester.

MUSIC

The instrumental and choral programs will encourage creativity as well as provide an opportunity for performance and musical growth to students who elect to take these courses. Through the non-performance classes, we provide an opportunity for students with less interest in performance to experience music and its impact on our culture.

MUS103 Songwriting **.5 Credit** **Grades 10-12**

This course is for students interested in writing, arranging and performing their own music. Students will learn basic music theory and composition techniques, including melodic principles, chord theory, and basic keyboard and lyric writing skills. Students will also learn to use the latest music technology including notation (*Noteflight*) and sequencing (*Garageband*) software. Students will be assessed through written quizzes, journaling and weekly composition assignments. There will be a “Moodle” page for this course and a significant portion of the material will be accessed online. Opportunities for performance of student work will be offered as well as inter-disciplinary work composing music for other classes, events, etc.

NOTES:

- This class is offered only in alternating years beginning with an even #. (i.e. 2016-2017).
- This course satisfies the .5 graduation requirement for ICT credit.

MUS105 Concert Band **1 Credit** **Grades 9-12**

This is a course for students who have previous experience playing a band or string instrument (flute, oboe, clarinet, bassoon, saxophone, trumpet, trombone, euphonium, violin, viola, cello, bass, percussion). Through rehearsals, performances, and written work, students will gain a basic knowledge of music theory, history, and appreciation while gaining proficiency on their instrument. Students will also learn to function as part of an ensemble and will develop skills in listening and improvisation. This is NOT a beginning instrumental course.

NOTES:

- In the rare case that a student wants to be enrolled in Concert Band, but does not have room for a full-year elective, that student can seek instructor permission to take Concert Band for one semester only for .5 credit.
- Practice time at home, as well as participation in all Concert Band performances, is required.

SUPPLIES: Students should provide their own instruments. In some instances, the school may be able to provide instruments.

MUS106 Stage Band **.5 Credit** **Grades 10-12**

Stage Band is for more advanced students who desire to improve their instrumental skills in various popular music styles. Students will work on reading and performance skills as well as improvisation. They will learn non-traditional theory and jazz and popular music history and appreciation through the repertoire played each semester.

PREREQUISITES: Audition and participation in one of the following: Concert Band, Concert Chorus, or Guitar II.

NOTES:

- **Stage Band meets the entire year for two mornings (7:10-8:10 am) per week.**
- **Practice time at home, as well as participation in all Stage Band performances, is required.**

MUS110 Concert Chorus

1 Credit Grades 9-12

Chorus is a performance class and is open to students who have the willingness and the desire to sing. Through rehearsal and written work, basic knowledge of music theory, history and appreciation is learned, as well as developing proper singing technique.

NOTES:

- **In the rare case that a student wants to be enrolled in Concert Chorus, but does not have room for a full-year elective, that student can seek instructor permission to take Concert Chorus for one semester only for .5 credit.**
- **Practice at home, and participation in all chorus activities, is required.**

MUS111 Select Chorus

.5 Credit Grades 9-12

Select Chorus is an auditioned group for advanced singers who desire to improve their vocal skills and sing more challenging music than Concert Chorus. Students will sing music of all styles.

PREREQUISITES: Audition and participation in Concert Chorus.

NOTES:

- **Practice time at home is required.**
- **Students must take part in all Music Department performances.**
- **The class meets one day a week throughout the year for 90 minutes after school.**

MUS113 An Introduction to Singing for Guys

.5 Credit Grades 9-12

In this class students will learn about singing from the male perspective, improve their vocal skills while exploring a variety of genres, and develop basic songwriting and arranging skills. This is a class for beginners.

NOTE:

- **Males only.**
- **This course may be taken twice in the same year for 1 credit.**

MUS117 World Music

.5 Credit Grades 9-12

This class will provide students with an introduction to non-Western styles of music from Africa, the Middle East, Asia, and South America. Students will be listening, playing and creating as they explore the music of these less-familiar cultures. No previous musical experience is necessary.

MUS120 Guitar I

.5 Credit Grades 9-12

This course is for beginning guitar students. Students will learn to read music notation, as well as chord charts and basic music theory needed to play guitar. Mastery will be shown through various written and performance quizzes.

NOTE: Practice time outside of class will be required.

SUPPLIES: Students MUST provide their own acoustic guitar.

MUS121 Piano I

.5 Credit Grades 9-12

This course will take you from being a beginning pianist, to being able to play different styles of music. Expect to study music theory, reading various styles of sheet music, fingering and dexterity exercises, basic composition, and basic vocal accompaniment.

NOTE: Practice outside of class will be required.

MUS220 Guitar II **.5 Credit** **Grades 10-12**

This course is a continuation of the beginning guitar course offered. Students will continue to work on reading and performance skills, which will be a more important component of this course than in beginning guitar class. An overview and study of all styles of music will be looked at and performed in this class. Mastery will be demonstrated through performances. Instructor permission will be granted if all skills from Guitar class can be demonstrated.

PREREQUISITE: Guitar Class with a grade of B or better or Instructor Permission.

NOTES:

- **This course will run only in alternating years beginning with an odd #(i.e.2017-2018).**
- **Practice time at home will be required.**

SUPPLIES: Students will need their own instrument.

MUS221 Piano II **.5 Credit** **Grades 10-12**

This course is designed to be a continuation of Piano I. Students are expected to begin the class with a basic knowledge of Western musical notation and the modern keyboard. Through in-class practice and performance, students will improve their ability to prepare and perform music, sight-read, improvise, compose, analyze, and evaluate. In addition to in-class performances, students should expect to complete some written assignments and research projects.

PREREQUISITE: Piano I with a grade of a B or better or Instructor Permission.

NOTES:

- **This course will run only in alternating years beginning with an even #(i.e.2016-2017)**
- **Owning a piano/keyboard is not necessary.**

MUS540 Music Theory Seminar **.5 Credit** **Grades 11-12**

Music Theory is a class for students with a strong demonstrated interest in music, and a record of success in music department classes at John Stark. This year-long course will investigate some music history and focus on an in-depth study of music theory. Depending on course make-up, students may also have the opportunity to form small chamber ensembles with their classmates and perform as an extension of the curriculum. Interested students will need to pass a basic placement test demonstrating fundamental musical understanding and the ability to work both independently and collaboratively with their peers.

PREREQUISITES: At least two John Stark music classes and instructor permission.

NOTE: This course will run only in alternating years beginning with an even #(i.e.2016-2017)

MUS560 String Ensemble**1 Credit****Grades 9-12**

The string ensemble is for students who have experience playing violin, viola, cello or double bass and are looking to perform challenging literature of various styles in a small ensemble setting. Students will work on sight-reading and performance skills through rehearsals and various performances. Practice time at home as well as participation in all String Ensemble performances is required.

NOTES:

- **In the rare case that a student wants to be enrolled in Concert Band, but does not have room for a full-year elective, that student can seek instructor permission to take Concert Band for one semester only for .5 credit.**
- **Practice time at home, as well as participation in all Concert Band performances, is required.**

SUPPLIES: Students should provide their own instruments. In some instances, the school may be able to provide instruments.

HEALTH AND PHYSICAL EDUCATION

It is the goal of the Physical Education and Health program to provide graduates with opportunities to expand their knowledge of health issues, wellness, and exercise. Students will be prepared for lifetime fitness and healthy decision-making and will have additional opportunities to increase their knowledge and experience through the additional electives offered. **The Foods and Nutrition and Child Development courses in FCS may also be used to satisfy the additional credit requirements for Health, PE and Wellness.**

HPE120 Health**.5 Credit****Grades 9-10**

The major goal of this course is to allow students to make knowledgeable decisions in leading a meaningful, healthy life. Topics include: emotions, self-esteem, and bullying prevention, stress awareness and management, substance abuse, nutrition, body image, eating disorders, and human sexuality.

HPE101 Physical Education I**.5 Credit****Grades 9-10****HPE102 Physical Education I (*female only*)**

Open to freshmen and sophomores only; one semester required for graduation.

The focus of this course is to teach students the basic principles and concepts of physical fitness and how to apply them to a personal fitness program. A varied program is offered including aerobic and skill-related team activities. This course also includes lectures and labs on the benefits of exercise and the problems associated with inactivity, rules and regulations of team activities, principles of health-related physical fitness, basic human anatomy through muscle identification, and team-building through Adventure Education. Students will also determine their own physical fitness through participation in the

physical fitness testing. Grading will be based on active participation, proper dress, and written performance.

NOTE: PEI, female only, will be offered in 2016-2017.

HPE201 Physical Education II .5 Credit Grades 10-11

HPE202 Physical Education II (*female only*)

The focus of this course is to continue to explore the relationship between fitness and its application to a healthy lifestyle. Students will be exposed to a variety of lifetime fitness activities. This course includes the principles of health-related physical fitness, setting and accomplishing Fitness and Health goals, a basic introduction to weight training, and team building through Adventure Education. Grading will be based on active participation, proper dress and written performance.

PREREQUISITE: Physical Education I.

NOTE: PEII, female only, will *not* be offered in 2016-2017.

HPE301 Leading the Way to Wellness (PE III) .5 Credit Grades 11-12

The primary emphasis of this course will be for students to develop leadership skills through team teaching, coaching, and officiating. The students will develop skills through activities including weight training and conditioning, field and court lead-up games, game competition, and other activities. Indoor and outdoor adventure activities will also be included. Students will learn that they have the power to become leaders and have control of their own fitness. Grading will be based on active participation.

PREREQUISITES: Physical Education I & II.

HPE302 Personal Fitness .5 Credit Grades 11-12

The emphasis of this class will be on individual fitness and health. Topics covered will include: terminology, types of exercises, principles and safety considerations in resistance training; participating in and constructing optimal personal fitness programs; health-related fitness components (cardiovascular endurance, muscular endurance, muscular strength, flexibility, and body composition); nutrition and supplements; and other topics associated with a healthy lifestyle. Grades will be based on active participation, preparation, and written assessments. Students who elect this course should be serious about learning and participating in the improvement of their personal fitness through lectures and activities. The class does not solely consist of just lifting weights. Because weight training is physically demanding and when improperly performed dangerous, students who do not respect the rules and regulations will be dismissed from the class.

PREREQUISITES: Physical Education I & II.

HPE303 Outdoor Leadership .5 Credit Grades 11-12

Students will be challenged both physically and mentally as the course's focus shifts from participating to leading challenging educational experiences. Students will learn group facilitation skills, challenge initiatives, ropes course facilitation, skills related to wilderness trips, and risk management while working with the entire class. Students should understand that this is a LEADERSHIP course, not strictly an outdoor experience. Expectations for this class are the completion of academic work, participation in ALL activities and attending ALL trips (day and overnight).

PREREQUISITES: Physical Education I & II.

FEES: This course requires additional costs. Scholarships are available.

HPE304 Health II

.5 Credit Grades 11-12

Developing a healthy lifestyle is a lifelong goal. During this class we will explore the benefits of developing habits and making the right choices towards a goal of maintaining and improving overall health and wellness. Topics will include stress management, drug and alcohol awareness and prevention, weight management strategies, human sexuality, and nutrition.

PREREQUISITE: Health.

HPE306 Walking for Wellness

.5 Credit Grades 11-12

This course introduces fitness through walking. Emphasis is on stretching, conditioning exercising, proper clothing, hydration needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program.

PREREQUISITE: Physical Education I & II.

HPE307 Mind & Body Wellness

.5 Credit Grades 11-12

Stress management gives students the experience of learning and applying stress management techniques and stress reduction methods. Mind and body stress management techniques will be learned, practiced, and applied. Stress reduction methods will also be taught to empower students with the tools to reduce the amount of stress in their lives. Through the application of stress reduction and stress management techniques students will enhance their health and wellness.

PREREQUISITE: Physical Education I & II

MATHEMATICS

Students must earn a minimum of 3 credits in mathematics, including successful completion of Algebra and Geometry. It is recommended that students preparing for college complete at least Algebra II or Integrated Algebra/Geometry III. In order to help students plan their sequence of math courses, the following chart shows courses that have been offered during the past two years, but may have been phased out. This is intended so that students who have already taken these courses are able to see their options for progression. **Six suggested course sequences are outlined below. Incoming freshmen should select a course from the “Grade 9” column. Other students should find the course in which they are currently enrolled and select a course from the box to the right.**

Students in the Class of 2020 must attain competency in mathematics for *each year* in which s/he is in high school through graduation. A Class of 2020 student may meet the additional math requirement by successfully completing an additional math course or by taking a non-math course in which mathematics knowledge and skills are embedded and applied. These courses will be identified in the 2017/2018 Program of Studies.

| Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|--|
| Integrated Algebra/Geometry Daily with Math Tech | Integrated Algebra/Geometry I | Integrated Algebra/Geometry II | Integrated Algebra/Geometry III |
| Integrated Algebra/Geometry I | Integrated Algebra/Geometry II | Algebra II (Last offered 2015-2016) | Consumer Math Trigonometry^ Stats & Probability^ |
| Algebra I (No longer offered) | Geometry (No longer offered) | Integrated Algebra/Geometry III | Pre-Calculus* Pre-Calculus Honors |
| Accelerated Algebra I * (No longer offered) | Geometry Honors (Last offered 2015-2016) | Algebra II (Last offered 2015-2016) | Calculus* AP Calculus AB/BC |
| Algebra II Honors (Last offered 2015-2016) | Algebra II Honors (Last offered 2015-2016) | Pre-Calculus* | Topics in Applied College Math |
| Geometry Honors (No longer offered) | Algebra II Honors (Last offered 2015-2016) | Pre-Calculus Honors | |
| Honors Integrated Algebra/Geometry II | Algebra II Honors (Last offered 2015-2016) | Pre-Calculus* | |
| | Honors Integrated Algebra/Geometry III | Pre-Calculus Honors | |

* indicates Accelerated level courses

^ indicates half-year course

MAT100 Mathematics Tech**1 Credit****Grade 9**

This course is designed for grade 9 students who require additional time or support to be successful in their high school mathematics courses. Course content includes review of basic math facts and fluency, as well as additional support in their current math class.

PREREQUISITE: Permission by the department coordinator.

NOTE: This course does not fulfill a math requirement for graduation and must be taken concurrently with Integrated Algebra/Geometry Daily.

MAT100A Integrated Algebra/Geometry Daily**1 Credit****Grade 9**

Integrated Daily is designed for students who need additional foundational knowledge before taking Integrated Algebra/Geometry I. Among the topics of study will be data and graphs, ratios, proportions, beginning algebra concepts, solving and graphing equations, two and three dimensional geometrical concepts, and real number operations. Successful completion of Integrated Daily will prepare students to take Integrated Algebra/Geometry I as a next course.

NOTE: Must be taken concurrently with Math Tech.

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

MAT106 Integrated Algebra/Geometry I**1 Credit****Grade 9-10**

This course is the first of a three-year sequence that offers a mix of algebra and geometry topics. The concepts discussed will include data and graphs, problem solving with variable expressions and equations, solving and graphing inequalities and linear functions, polynomials, and probability. The geometry portion will cover two and three dimensional geometry concepts including triangles, polygons, similarity, transformations and coordinate plane geometry.

PREREQUISITE: Integrated Algebra/Geometry Daily or 8th grade math.

NOTES:

-
- **This course satisfies .5 credit of the Algebra graduation requirement and .5 credit of the Geometry graduation requirement.**
- **Students who complete this course must take Integrated Algebra/Geometry II to satisfy the remaining full algebra and geometry requirements for graduation.**

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

MAT206 Integrated Algebra/Geometry II**1 Credit****Grade 10-11**

This course is the second of a three-year sequence that offers a mix of algebra and geometry topics. The concepts discussed will include equations and inequalities, graphing linear functions, systems of equations and inequalities, polynomials and factoring and graphing basic quadratic functions. The geometry portion will cover two and three dimensional geometry concepts including transformations, logic and reasoning, congruent and similar triangle proofs, circles, and right triangle trigonometry.

PREREQUISITE: Integrated Algebra/Geometry I.

NOTE: This course must be taken following Integrated Algebra/Geometry I to satisfy the Algebra and Geometry requirements for graduation.

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

MAT207 Honors Integrated Algebra/Geometry II **1 credit** **Grade 9-10**

This course is the second of a three-year sequence that offers a mix of algebra and geometry topics. The concepts discussed will include equations and inequalities, graphing linear functions, transformations, systems of equations and inequalities, polynomials and factoring, and graphing basic quadratic functions. The geometry portion will cover two and three dimensional geometry concepts, including transformations, logic and reasoning, congruent and similar triangle proofs, circles, and right triangle trigonometry.

PREREQUISITE: Successful completion of Algebra I as an eighth grader, placement test scores, and permission of the department coordinator.

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

MAT 307 Integrated Algebra/Geometry III **1 Credit** **Grades 11-12**

This is the third course of a three-year sequence that offers a mix of algebra and geometry topics, preparing students for more advanced mathematics. Algebraic topics will include polynomial, rational, logarithmic, exponential and radical equations. The geometry portion of the course will cover two and three dimensional solids, circles and trigonometric functions.

PREREQUISITES: Integrated Algebra/Geometry II or department coordinator's permission.

SUPPLIES: A graphing calculator (TI-83 or higher) is recommended.

MAT317 Honors Integrated Algebra/Geometry III **1 Credit** **Grades 10-12**

This course is for the very capable mathematics student and is the third course of a three-year sequence that offers a mix of algebra and geometry topics, preparing students for more advanced mathematics. Algebraic topics will include polynomial, rational, logarithmic, exponential and radical equations. The geometry portion of the course will cover two- and three-dimensional solids, circles and trigonometric functions. Students need to be aware this course requires extensive preparation outside of class, as well as a focused effort in the classroom.

PREREQUISITES: Geometry Honors, Honors Integrated Algebra/Geometry II or department coordinator's permission.

SUPPLIES: A graphing calculator (TI-83 or higher) is recommended.

MAT318 Pre-Calculus* **1 Credit** **Grades 11-12**

This course draws together three years of mathematics (Algebra I, Geometry, and Algebra II). First semester, students will use their knowledge to study and apply higher order equations and inequalities, polynomial and rational functions and inequalities and the exponential function. Second semester will emphasize the six basic trigonometric functions and their identities. Students need to be aware this course requires extensive preparation outside of class, as well as focused effort in the classroom.

PREREQUISITES: Algebra II Honors & Geometry Honors or a minimum 85 average in Algebra II & Geometry (or Integrated Algebra/Geometry II & Algebra II) or teacher recommendation.

NOTE: The class is designed to prepare students for Calculus their senior year, or as a college freshman.

SUPPLIES: A graphing calculator (TI-83 or better) is recommended.

MAT320 Pre-Calculus Honors**1 Credit Grade 11-12**

This honors course draws together three years of mathematics (Algebra I, Geometry, and Algebra II) faster, and in more depth than the alternative course. First semester students will use their knowledge to study and apply higher order equations and inequalities, polynomial and rational functions and inequalities and the exponential functions. Second semester will place an emphasis on the six basic trigonometric functions and their identities. Students need to be aware this course requires extensive preparation outside of class, as well as focused effort in the classroom.

PREREQUISITES: Minimum of an 85 average in Algebra II Honors and Geometry Honors and teacher permission.

NOTE: The class is designed for those students with a special interest in taking AP Calculus during their senior year.

SUPPLIES: A graphing calculator (TI-83 or better) is required.

MAT350 Consumer Math**1 Credit Grades 11-12**

Emphasis will be placed on basic mathematical skills needed for success in the “real world”. Students will study units on income, taxes, banking, purchasing, credit, loans, transportation, housing, insurance, investments, and budgeting.

PREREQUISITE: Algebra I and Geometry or Integrated Algebra/Geometry II.

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

MAT340 Topics in Applied College Mathematics**1 Credit Grades 11-12**

This course is designed to expose the student to a wide range of general mathematics. Problem solving and critical thinking skills, along with the use of technology, will be emphasized and reinforced throughout the course as the student becomes actively involved in solving applied problems. Topics include: number theory and systems, functions and modeling, finance, geometry, measurement, probability, statistics, and selected subtopics related to the student’s anticipated field of study.

PREREQUISITE: Algebra 2 or Integrated Algebra/Geometry III with a grade of “C” or higher or the department coordinator’s permission.

NOTE: This is a Project Running Start course.

FEES: Students interested in earning NHTI credit will need to pay a \$150.00* registration fee (as of December, 2015) within the first few weeks of the course.

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

MAT356 Trigonometry**.5 Credit Grades 11-12**

In addition to the study of triangle measurements, identities, and trigonometric models, this semester course explores periodic real-world phenomena, calculator applications, and the interconnectedness of geometry and algebra through trigonometric properties.

PREREQUISITES: Algebra I, Algebra II & Geometry, or the equivalent.

SUPPLIES: A simple scientific calculator (TI-30) is required.

NOTES:

- **Trigonometry may not be taken in any combination with Pre-Calculus**
- **This course is not offered in the 2016-2017 school year.**

MAT358 Statistics and Probability**.5 Credit Grades 11-12**

Understanding probability and the related area of statistics will involve collecting, representing, and processing data as well as sampling, fitting curves, testing hypotheses, and drawing inferences to generate and interpret the myriad statistical claims made in daily living. Time will be spent constructing and drawing inferences from charts, tables, and graphs, and using computer techniques whenever possible.

PREREQUISITE: Minimum of Algebra II.

SUPPLIES: A simple scientific calculator (TI-30) is recommended.

NOTE: This course is not offered in the 2016-2017 school year.

MAT405 Calculus ***1 Credit Grade 12**

This course covers the standard contents of a first year calculus course. Emphasis is placed on differentiation and integration and their applications. Students need to be aware this course requires extensive preparation outside of class, as well as focused effort in the classroom.

PREREQUISITE: Pre-Calculus.

SUPPLIES: A graphing calculator (TI-83) is strongly recommended.

MAT550 AP Calculus AB**1 Credit Grade 12**

This course covers the standard contents of a first year calculus course. Emphasis is placed on limits, differentiation and integration and their applications faster, and in more depth than the alternative course. Students need to be aware this course requires extensive preparation outside of class, including summer preparation, as well as focused effort in the classroom.

PREREQUISITES: Honors Pre-Calculus and teacher permission.

FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

SUPPLIES: A graphing calculator (TI-83) is required but a TI-84 is preferred.

MAT551 AP Calculus BC**1 Credit Grade 12**

This course covers the standard contents of a second year calculus course. Emphasis is placed on differential equations, applications of integration, specialized integration techniques, improper integrals, infinite series, conics, and parametric equations. Students need to be aware this course requires extensive preparation outside of class, including summer preparation, as well as focused effort in the classroom. If the course is not scheduled due to low class enrollments, the course will be offered as an independent study in the same block as MAT550, AP Calculus AB.

PREREQUISITE: AP Calculus AB or permission of instructor.

FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

SUPPLIES: A graphing calculator (TI-83) is required but a TI-84 is preferred.

PROJECT LEAD THE WAY
Pre-Engineering Education Program

PLTW101 Introduction to Engineering Design **1 Credit** **Grades 9-12**

IED is an introductory course, which develops student problem solving skills, with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by modern, state-of-the-art computer hardware and software. The course will emphasize the design development process of a product and how a model of that product is produced, analyzed, and evaluated, using a Computer Aided Design System. Group work and presentations are a core piece of the curriculum.

NOTES:

- **Must be enrolled in or have completed Integrated Algebra/Geometry II or Algebra I.**
- **An application is required.**
- **This is a Project Running Start Course.**
- **This course satisfies the .5 credit graduation requirement for ICT.**

FEES: Students interested in earning NHTI credit will need to pay a \$150.00* registration fee (as of December, 2015) within the first few weeks of the course.

PLTW201 Digital Electronics **1 Credit** **Grades 10-12**

Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards, and technical documentation.

PREREQUISITE: Principles of Engineering.

NOTES:

- **This is a Project Running Start Course.**
- **This course satisfies the .5 credit graduation requirement for ICT.**

FEES: Students interested in earning NHTI credit will need to pay a \$150.00* registration fee (as of December, 2015) within the first few weeks of the course.

PLTW301 Principles of Engineering **1 Credit** **Grades 10-12**

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering programs. They will explore various engineering systems and manufacturing processes, while learning how engineers address concerns about the social and political consequences of technological change. Group work and presentations are a core piece of the curriculum.

PREREQUISITE: Intro to Engineering Design and must have completed Integrated Algebra/Geometry II or Algebra I.

NOTES:

- **This is a Project Running Start Course.**
- **This course satisfies the .5 credit graduation requirement for ICT.**

FEES: Students interested in earning NHTI credit will need to pay a \$150.00* registration fee (as of December, 2015) within the first few weeks of the course.

PLTW305 Civil Engineering & Architecture **1 Credit** **Grades 10-12**

The major focus of this course is completing long-term projects that involve the development of property sites. Students work in teams, exploring hands-on activities and projects to learn about various aspects of civil engineering and architecture. They apply what they learn to the design and development of a property. In addition, students use 3D software to help them design solutions to solve major course projects.

NOTES:

- **This course satisfies the .5 credit graduation requirement for ICT.**
- **This course is not offered during the 2016-2017 school year.**

PREREQUISITE: Algebra I or the Integrated Algebra/Geometry II.

PLTW401 Computer Integrated Manufacturing **1 Credit** **Grades 11-12**

CIM is a course that applies principles of rapid prototyping, robotics, and automation. This course builds upon the computer solid modeling skills developed in Introduction to Engineering Design. Students will use computer controlled rapid prototyping and CNC equipment to solve problems by constructing actual models of their three-dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment. Students will evaluate their design solutions using various techniques of analysis, and make appropriate modifications before producing their prototypes.

PREREQUISITE: Principles of Engineering or teacher recommendation.

NOTES:

- **This is a Project Running Start Course.**
- **This course satisfies the .5 credit graduation requirement for ICT.**

FEES: Students interested in earning NHTI credit will need to pay a \$150.00* registration fee (as of December, 2015) within the first few weeks of the course.

PLTW501 Biological Engineering for Environmental Sustainability **1 Credit** **Grades 11-12**

BEES is a rigorous activity, project, and problem-based course in which students investigate and design solutions to solve real-world challenges related to world food security, renewable energy, and clean drinking water. Students will design and build prototypes, perform genetic tests and genetic engineering, as well as develop Biotech fermentation systems. Students completing BEES will develop an understanding of the scientific and technological foundations for each of the problems. Students apply their knowledge and skills as they use an engineering design process to design and test solutions that help solve these global challenges.

PREREQUISITE: Successful completion of Biology Honors/Accelerated and at least concurrent enrollment in Chemistry, as well as teacher recommendation.

SCIENCE

The Science Department provides a wide range of courses in order to develop citizens who are science literate. Required courses emphasize science concepts, lab practices, and current and emerging technologies. Science electives provide students with the opportunity to expand their science knowledge and skills, as well as prepare them for further study beyond John Stark.

SCI101 Physical Science

1 Credit

Grade 9

Physical Science is an introductory lab course that provides students with the background in the fundamentals of chemistry, physics, and several key concepts in the earth sciences. This course builds lab skills that are required for other John Stark science courses. Learning targets will focus on the structure and composition of matter, elements and compounds, chemical behavior and reactions, simple machines, waves, energy, and the laws of motion. Emphasis will be placed on students interpreting these concepts through experimentation and applying them to the technological issues facing society today and in the future.

SCI210 Biology Honors

1 Credit

Grades 9-10

SCI211 Biology*

Grade 10

SCI201 Biology

Grade 10

Biology is the study of the living world. This course will examine the interactions between organisms and their environment. It will investigate the cells and compounds that make organisms up and give organisms their unique characteristics. Biology will culminate with an exploration of how life evolved and continues to evolve on this dynamic earth.

NOTE: 8th grade students must apply for Honors Biology placement. 9th grade students need teacher's recommendation.

SCI251 Introduction to Marine Science

.5 Credit

Grades 10-12

The vastness of the ocean is alluring because it is both familiar and mysterious at the same time. Topics of study in this introductory course will include properties of seawater, the ecological zones in the marine environment, adaptations and life cycles of organisms, ocean exploration, and environmental issues. Students will perform classroom investigations that explore the variety of environmental pressures experienced by marine organisms. Fieldwork may be conducted at the Boston Aquarium or the New Hampshire seacoast.

PREREQUISITES: Physical Science and current enrollment in or completion of Biology.

SCI253 Astronomy

.5 Credit

Grades 10-12

Astronomy examines how space, stars, and planets appear from the surface of Earth and investigates the true nature and motion of these same bodies. Course topics will include: light moon phases, eclipses, orbital motion, stellar evolution, and galaxy formations.

PREREQUISITE: Physical Science or Biology

NOTE: This is an investigations/discussion-based course and will involve several night viewing sessions.

SCI254 Topics in Earth Science**.5 Credit Grades 10-12**

Some of our most fascinating and challenging global issues today have their roots in the earth sciences. This course will explore topics such as: fuel sources-supporting our growing need for energy; global climate change-investigating the evidence and predicting the impact; fresh water-supporting a thirsty world; soil-feeding the world, and Earth events-predicting and preparing for events such as earthquakes, tsunamis, and volcanic eruptions.

NOTE: This is a discussion, lab, and project-based course.

SCI351 Chemistry**1 Credit Grades 10-12**

This course is designed for either career or college and represents a subset of what is covered in the accelerated chemistry class. This course emphasizes problem-solving and decision-making skills while exploring the impact of chemistry on society by addressing chemistry-related technological issues that are relevant to society. Students learn concepts that are needed to understand basic chemistry concepts through classroom laboratory investigations, demonstrations, and discussions.

RECOMMENDATION: Physical Science and Integrated Algebra/Geometry I

NOTE: Mathematical skills will be supported.

SCI352 Chemistry***1 Credit Grades 10-12**

This lab-intensive course is designed to allow the student to explore chemistry in preparation for college. This course focuses on areas of investigation include periodicity, chemical bonding, chemical reactions, etc. Emphasis will be placed on an interpretive method of investigation utilizing process skills such as observing, organizing, analyzing, and graphing. Laboratory experiences are designed to familiarize students with chemical reactions and to develop skills in using laboratory equipment.

PREREQUISITE: Physical Science or Biology, and completion of or concurrent enrollment in Integrated Algebra/Geometry II

SCI360 Human Anatomy & Physiology***1 Credit Grades 11-12**

Human Anatomy and Physiology is a lab course designed for those who plan careers in biological or health-related areas. It involves a detailed study of the structure and function of the human body. Labs will include the dissection of a preserved mammal. Topics include biochemistry, cytology, histology, and various body systems.

PREREQUISITES: Physical Science and Biology (accelerated or honors) with a B or better, or teacher recommendation.

SUPPLIES: Students will need to purchase their own natural rubber latex, vinyl, or nitrile gloves.

SCI361 Human Biology**.5 Credit Grades 10-12**

This course is an overview of the human body that will explore most of the body's systems. Emphasis will be on the structure and function of various body systems as well as how the systems work together to maintain homeostasis. Injuries and diseases of various systems may be investigated as well. Labs will include dissection of preserved mammal organ(s).

PREREQUISITES: Biology.

SCI362 Forensics I **.5 Credit** **Grades 10-12**

Forensic science is a growing field and is a vital part of the criminal justice system. Students will document mock crime scenes, analyze evidence, interact with guest speakers, read case studies, view videos, and conduct research. Topics include: history of forensics, crime scene documentation, serology, forensic entomology, and finger printing.

PREREQUISITES: Physical Science & Biology.

SCI363 Forensics II **.5 Credit** **Grades 10-12**

Forensics II will draw on knowledge and techniques gained in Forensics I. Student knowledge will be extended through work in the areas of advanced serology, trace evidence, forensic anthropology, and toxicology. The course will involve lecture, labs, readings, case studies, research, and guest speakers.

PREREQUISITE: Forensics I.

SCI364 Mythbusters **.5 Credit** **Grades 11-12**

Mythbusters is a popular television show on the Discovery Channel in which the hosts “mix scientific method with gleeful curiosity and plain old-fashioned ingenuity to create their own signature style of explosive experimentation.” At its core, the program is about science – using experiments to answer questions. The Mythbusters course will essentially be a course in the scientific method that will teach students to answer their own questions through experimentation.

PREREQUISITE: Physical Science or Biology.

SCI367 Environmental Studies **.5 Credit** **Grades 10-12**

Environmental Studies is a field-based course with an emphasis on local ecological projects. Each semester students will engage in fieldwork, often in partnership with a local environmental organization, that has an authentic product. Students may be involved with projects such as investigating the natural resources of a property under consideration for conservation, winter tracking to monitor bobcats and other mammals on local conservation land, documenting vernal pools, or monitoring the water quality of a local river or stream. Information learned may be used to contribute to conservation decisions or to educate the greater community. Projects will vary seasonally and from year to year, which enables students to take this course twice in consecutive semesters, earning one credit.

PREREQUISITE: Biology.

NOTES:

- **Students may contract for accelerated credit.**
- **This course may be taken twice in consecutive semesters for 1 credit.**

SCI452 Physics* **1 Credit** **Grades 11-12**

Physics is the branch of science that studies how components of the physical world interact. These interactions are studied through laboratory work and mathematical modeling. The first semester of the course focuses on motion and energy. Second semester topics include, but are not limited to, heat, light, sound, and electricity.

PREREQUISITES: Completion of Physical Science with a “B” or better and Integrated Algebra/Geometry II or Algebra II with a “B” or better, or teacher recommendation.

SCI552 AP Physics C: Mechanics**1 Credit Grades 11-12**

AP Physics C: Mechanics provides instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Methods of calculus are used in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus, as well as continuing to develop a deep understanding of physics concepts. Laboratory experiences are also an important part of helping students understand the topics of study.

PREREQUISITE: Must be enrolled in Calculus.

FEES: Students are expected to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

CI560 AP Chemistry**1 Credit Grades 11-12**

AP Chemistry is a rigorous and challenging course designed to cover chemistry and chemical principles typical of a general college level course. Students must be motivated and willing to do extensive work outside of class. Topics include Solution Stoichiometry, Chemical Reactions, Gases, Thermochemistry, Atomic Structure, Bonding, Chemical Kinetics and Equilibrium, Acids and Bases, Thermodynamics, and Electrochemistry. Class will be offered in a roundtable presentation of question and problem format with at least 85 minutes of inquiry based lab work biweekly. Students will be required to keep a lab journal.

PREREQUISITE: Successful completion of Accelerated Chemistry and Integrated Algebra/Geometry II and teacher recommendation.

NOTE: Summer work prior to the start of the course will be expected.

FEES: Students are expected to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

SCI570 AP Biology**1 Credit Grades 11-12**

This course prepares students for the Advanced Placement examination. This course involves an intensive study of college level biology, and advanced mathematics may be employed in the solution of problems and in writing formal lab reports. Using an inquiry-based approach, students will be required to perform extensive work in the lab and outside of the classroom in order to master topics in ecology, biochemistry, cytology, molecular genetics, heredity, and evolution. Students will be required to maintain a lab journal.

PREREQUISITE: Successful completion of Biology Honors/Accelerated and Chemistry as well as a teacher recommendation

NOTE: Summer work will be required, and students will be required to maintain a laboratory notebook.

FEES: Students are expected to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

PLTW501 Biological Engineering for Environmental Sustainability

1 Credit Grades 11-12

BEES is a rigorous activity, project, and problem-based course in which students investigate and design solutions to solve real-world challenges related to world food security, renewable energy, and clean drinking water. Students will design and build prototypes, perform genetic tests and genetic engineering, as well as develop Biotech fermentation systems. Students completing BEES will develop an understanding of the scientific and technological foundations for each of the problems. Students apply their knowledge and skills as they use an engineering design process to design and test solutions that help solve these global challenges.

PREREQUISITE: Successful completion of Biology Honors/Accelerated and at least concurrent enrollment in Chemistry, as well as teacher recommendation.

SOCIAL STUDIES

In the first two years of high school, students take World Cultures & Geography and Western Civilization. In the third year, students take American Studies or AP United States History. Students must also take one course each in civics and economics during their junior or senior year. In addition to these required courses, students in Grades 11 and 12 may choose from a variety of electives.

SOC110 World Cultures & Geography Honors

1 Credit

Grade 9

SOC101 World Cultures & Geography

This course is designed to provide Grade 9 students with an understanding of the geographic features, cultures, and political systems of the modern developing world. Students study the non-western world, including Africa, Latin America, East Asia with a focus on China, South Asia with a focus on India, and Southwest Asia (Middle East). Students will gain the background they need for subsequent Social Studies courses, including Western Civilization and American Studies. Students will also work on the skills necessary to be a successful student: research, organization, note taking, writing, speaking and listening, as well as map skills.

SOC210 Western Civilization Honors

1 Credit

Grade 10

SOC201 Western Civilization

This course is designed to give sophomores an understanding of the development of the Western world from ancient to modern times. The course will take a survey approach centered on several main topics including: classical Greece and Rome, the middle ages, the renaissance/reformation period, social, political, and economic revolutions, as well as World Wars.

SOC220 Civics**.5 Credit Grades 11-12**

This course is designed to prepare students to be informed and active participants in the civic life of our country. Students will study the foundations of American government, federal, state and local government structures and practices, as well as constitutional rights, political behavior, and foreign policy. Students will engage in debates, make seminar presentations, and participate in simulations.

NOTE: This course satisfies the .5 Civics requirement for graduation.

SOC221 We the People/Civics***.5 Credit Grades 10-12**

In this course students will develop an understanding about how government operates by looking at the Constitution and the history and philosophy behind it. The main focus of the course is preparation for mock senate hearings in which performance is judged against other area schools through writing and oral presentation. Based on performances at the regional level, students may go on to state and/or national competitions. Sophomores should only take this course if they have a strong interest in government and/or American history. Students taking AP US History are strongly encouraged to take this course.

NOTES:

- **Tenth graders may take with teacher permission.**
- **This course meets the .5 Civics requirement for graduation.**

ENG/SOC302 American Studies**2 Credits Grade 11-12**

American Studies is a combined U.S. History and American Literature course that examines the broad scope of American culture through its history and literature, as well as its art, music, and film. Themes might include Puritanism, the individual, Romanticism, the Industrial Revolution and its consequences, expansion, civil rights, and the role of the U.S. in the world at large. Students should expect to be challenged through small and large group activities, demonstrations, and frequent writing assignments.

NOTES:

- **This class fulfills both the English 11 and the US History requirement for graduation. In the event that a student fails this course, the teachers will determine whether one or both credits need to be remediated.**
- **The class meets for one block each day.**
- **It is important to remember that this class is two courses and assignments/expectations reflect the combined nature of the course.**

SOC303A Exploring Economics**.5 Credit Grades 11-12**

This course is designed to prepare students to make effective decisions as consumers, producers, savers, investors, and good citizens. Students enrolled in this course will learn about basic economic concepts in microeconomics and macroeconomics, economic cycles, international economics and trade, as well as personal finance. Students will engage in debates, make seminar presentations, and participate in simulations.

NOTE: This course satisfies the .5 credit graduation requirement for Economics.

SOC550 AP United States History**1 Credit Grades 11-12**

This full-year Advanced Placement course is designed to engage students in a comprehensive study of the history of the United States. Students will be expected to master the content of US History as well as engage in thoughtful analysis of primary source

documents. Students will also study the viewpoints of various historians of US history and ultimately develop their own conclusions concerning the details of that history. A high level of commitment is expected of all students enrolled in this course.

PREREQUISITES: Application & Teacher Recommendation.

NOTES:

- **Juniors who enroll in this course must also enroll in AP English Language & Composition in order to satisfy their graduation requirements.**
- **Seniors who have completed American Studies may take this course as an elective.**
- **FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).**

Social Studies Electives

Electives in the social studies are generally open to students in their junior and senior year. Students with sophomore standing may enroll in elective courses when space is available and if students are appropriately prepared for the challenge. **Students with sophomore standing may enroll in elective courses on a space available basis, with permission from the Department Coordinator.**

SOC252 Criminal Justice

.5 Credit Grades 10-12

This course provides students with an introduction and overview of the system of the US Criminal Justice system. Students will first learn how crime is defined (a.k.a. the elements of crime) as well as defenses. Next, police agencies as well as methods used by police are explored including the legal limits of police action. Criminal procedure issues such as bail, jury trials, and privilege are examined along with sentencing issues such as the death penalty and juvenile justice. The course ends with a look at corrections issues including consideration of the purpose of corrections and prison culture. Students will gain practical knowledge of the criminal justice system and see how it applies to their lives. They will have an opportunity to interact with professionals who work in the criminal justice system through guest speakers and/or field -work.

SOC310 Contemporary Issues

.5 Credit Grades 10-12

The blistering pace of change and the complexity of the issues facing us today are astounding. In this course, students will learn about these issues through discussions, debates, reading and analyzing articles, and viewing news programs such as Frontline and CNN Student News. Students will examine how these issues relate to their own lives. They will look for bias in news reporting and practice how to conduct research on current issues. They will practice engaging in thoughtful discourse with their peers on the issues of today's world such as the upcoming presidential election, global terrorism, and climate change. Local issues will also be explored. This course will equip John Stark students with the content knowledge and thinking skills necessary to be effective participants in our local, state, national and global communities.

SOC355 Law in Action*

.5 Credit Grades 10-12

Enraptured by the courtroom drama *Law and Order*? Fascinated by the role and responsibility of the courts? Moving beyond the content of Criminal Justice, students in this course will apply their knowledge of law to current legal issues. Students will examine the

purpose of law and the difficulty in structuring it to support our values. Additionally, areas of law such as family, contract and tort law will be explored. The centerpiece of the class is a mock trial in which students take on roles as lawyers and witnesses. Students will also have an opportunity to prepare and present an appellate argument.

SOC356 Philosophy **.5 Credit** **Grades 10-12**

This course will explore aspects of Philosophy such as Metaphysics (Reality), Epistemology (Knowledge), and Ethics through the mediums of short films, short stories, and primary sources. Students will examine how such thoughts affect current cultural issues and perspectives. Students' ideas and self-reflection will take center stage in this course. This course will attempt to tackle the thoughts of famous philosophers such as Plato, Aristotle, Hobbes, Descartes, Spinoza, Locke, Leibniz, Kant, Mill, Nietzsche, and Berkeley. The class will rely upon selected readings, journaling, research, and class-discussion.

SOC358 Sociology **.5 Credit** **Grades 10-12**

This course involves the study of human behavior by analyzing social structures (the patterned ways that people interact in social relationships). Students will first learn the four basic sociological perspectives and consider questions about sociological research and methods. The course then focuses on understanding social structures like culture, status, groups and how those structures are formed through socialization. Many of the concepts of the course are explained using modern era readings and video. Students will have an opportunity to consider how sociological concepts and perspectives apply to their own lives.

SOC359 Psychology **.5 Credit** **Grades 10-12**

This course is designed to give students an opportunity to survey and explore different aspects of psychological study. Emphasis is placed on the analysis of human behavior and relationships. During the first half of the semester, theories of learning and personality development will be presented so that students may gain greater self-awareness and better understanding of others. In the second half of the semester, the class will focus on troubled personalities, psychological disorders, and related psychosocial issues. Students are expected to participate in and conduct their own psychological experiments and complete an independent research paper as part of this course.

SOC560 AP Psychology **1 Credit** **Grades 11-12**

The Advanced Placement Psychology course is a challenging and rigorous college level course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students are expected to participate in and conduct their own psychological experiments. Completion of summer work is required. A semester of open level psychology is strongly suggested before taking AP Psychology.

PREREQUISITES: Teacher permission, application.

FEES: Students are required to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

WORLD LANGUAGES

The study of a world language is an active and sequenced process. Most competitive colleges seek students who have taken at least three years of a world language while in high school. For this reason, students seeking the John Stark Diploma with Distinction must complete at least three years of the same language.

The curriculum of each language offered (French, Spanish, Latin, and Mandarin Chinese) is based on the State of New Hampshire and national standards guidelines. These goals seek competency in five areas: Communication (interpersonal, interpretive, and presentational), Cultures (knowledge and understanding of relevant peoples and their traditions), Connections (learning through associations with other subject areas and fields of study), Comparisons (insight into the nature of language and culture), and Communities (participation in target-language speakers at home and throughout the world).

WL110 Spanish I **1 Credit** **Grades 9-11**

Spanish I is an introduction to Spanish both as a world language and as a significant language within the United States. This course further provides an appreciation of the peoples, cultures, and nations where Spanish is spoken. Students will learn to listen to and understand simple Spanish conversations or videos as well as exchange information about themselves in the present tense.

WL210 Spanish II **1 Credit** **Grade 9-11**

Spanish II builds on the basics acquired in Spanish 1, with a growing emphasis on proper use of verbs in the present and past tenses. As with Spanish 1, the course explores and measures a student's ability to listen, speak, read, and write in Spanish, based on thematic chapters for communication in daily life. Communicative projects also demonstrate a student's cultural competency in the U.S., Europe, and the Americas.

PREREQUISITE: Spanish I.

WL211 Spanish II* **1 Credit** **Grades 9-12**

Students must demonstrate a keen interest in the Spanish language and culture. It is the purpose of this course to prepare and support those students for the Advanced Placement Spanish Language course in their senior year.

PREREQUISITES: Spanish I (minimum of 85%) and teacher recommendation.

WL310 Spanish III **1 Credit** **Grades 10-12**

Spanish III builds upon knowledge from Spanish II. Students continue to work towards increased proficiency through active participation in Spanish during regular class discussions, skits, and dialogues. The first semester is a broad review and expansion of grammar, vocabulary, and verb tenses taught in Spanish II. Spanish III explores all three moods of the Spanish language: indicative, imperative, and subjunctive moods. Students are required to create and maintain a book of all these grammatical tenses and concepts that serves as a reference throughout Spanish III and beyond. Writing, reading, and public speaking of Spanish takes on greater importance in the second semester of Spanish III, as students write papers of increasing length and complexity in response to topics developed in class or in response to readings. Students are also required to write a speech in Spanish and deliver it to their peers.

PREREQUISITE: Spanish II and Teacher recommendation.

WL311 Spanish III/IV*

1 Credit

Grades 10

This is a continuation of Spanish II* and a preparation for the Advanced Placement Spanish Language course. This course will cover material presented in both Spanish III and IV, including the past tenses and the subjunctive mood. Students will work toward beginning comprehension of more complex Spanish conversations and videos as well as begin to exchange opinions about and among themselves.

PREREQUISITES: Spanish II* (minimum 85%) and teacher recommendation.

WL410 Spanish IV

1 Credit

Grades 11-12

Spanish IV continues an emphasis upon speaking, reading, and writing while using the Spanish language. Students are required to create oral projects, read appropriate real-world materials, write reports, and participate in activities designed to increase Spanish proficiency.

PREREQUISITE: Spanish III and teacher recommendation.

WL550 AP Spanish Language

1 Credit

Grades 11-12

This course is designed for those students who have a comfortable command of the Spanish language and wish to study at an advanced level. Students study the six themes of AP Spanish and will focus on improving listening, reading, speaking and writing skills in order to prepare students for taking the AP Exam in May.

PREREQUISITES: Spanish IV or Spanish III/IV and teacher recommendation.

FEES: Students are expected to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

SUPPLIES: Students are encouraged to purchase an AP workbook.

WL112 French I

1 Credit

Grades 9-12

French I will introduce French as a world language while encouraging the understanding of all French-speaking communities and cultures. The course emphasizes vocabulary acquisition and interpretive, interpersonal, and presentational communication skills, including grammar and sentence structure. Students are exposed to reading for comprehension and various forms of audio that will encourage listening comprehension. Upon successful completion of the course, students should be able to demonstrate an ability to communicate in an informal manner on a variety of subjects and in a number of situations. Students will also have an understanding of the geography and culture of France and other French speaking countries.

WL212 French II

1 Credit

Grades 9-12

In French II, the communication skills introduced in French I are reinforced and refined, while vocabulary and grammar acquisition is intensified. The focus of the course leads toward increased language proficiency using different tenses and more complex sentence structures in both pre-prepared oral dialogue and written work. Reading for comprehension and classroom discussion includes exposure to short works and real-world documents, such as print ads, media and other real-world documents. Course content is based in all Francophone cultures and will compare and connect Francophone cultural practices, perspectives and products to learning in other disciplines and life in local communities.

PREREQUISITE: French I.

WL312 French III

1 Credit Grades 10-12

In French III, the practice of listening, speaking, reading, and writing skills continues as students work toward increased language acquisition. Refining the skills learned in prior levels, students strive toward greater mastery and broader oral and written communication competence. Students continue to acquire vocabulary, to work on the use of a variety of tenses, and to increase the proficiency of their grammar and sentence structure. Interpersonal, interpretive and presentational communication proficiency is a focus through tasks involving writing, reading and public speaking. Students will begin to write papers, creative works and original dialogues in response to topics that are based in Francophone culture, connected to other disciplines, targeted toward the community and compared to issues in their own lives. The priority of the class is oral and written proficiency, and active participation is expected of each student.

PREREQUISITE: French II and teacher recommendation.

WL412 French IV

1 Credit Grades 11-12

French IV offers students an environment in which to refine the skills developed in French I through French III. Tasks and learning targets focus on both spoken and written communication for more refined self-expression, interpretive reading of short stories, novels and plays, and presentational writing of original creative pieces. Particular attention is given to the comparison of current events and trends in French and American communities. In addition, a thorough review of French grammar is integrated into this program.

PREREQUISITE: French III and teacher recommendation.

WL560 AP French Language

1 Credit Grade 11-12

This course is designed for those students who have a comfortable command of the French language and prepares students for the new, recently revised, Advanced Placement French Language exam in May. Students learn about contemporary Francophone societies and cultures by examining their products, practices and perspectives through thematic study. Students will use authentic sources such as newspaper and magazine articles, websites, films, music, video clips, blogs, podcasts, stories, and literary excerpts in French to develop language skills and communicative proficiency in real-life settings. AP French students will build communication skills through regular class discussion, one-on-one conversation, collaboration with classmates, role playing, email responses, essay and journal writing, and oral presentations. Students who successfully complete the AP exam may qualify for up to one year's credit in French at their selected college.

PREREQUISITE: French III or French IV and teacher recommendation.

NOTE: There is an application process for this course.

SUPPLIES: Students are encouraged to purchase an AP workbook.

FEES: Students are expected to take the Advanced Placement Exam in May at a cost of \$92 (as of December, 2015).

WL114 Latin I

1 Credit Grades 9-11

Latin I begins the exploration of the Latin language, which was the common language of Europe for over 1,000 years. The aim is twofold: 1) to prepare a student to read the

literature of Latin from classical Roman literature to the humanistic and early scientific writings of the 17th Century, and 2) to examine how a knowledge of Latin will enrich a student's abilities to communicate in the 21st Century. The course follows the life of the Caecilius family, an upper-class family living in Pompeii in 79 CE, as set forth in the Cambridge Latin Series textbook. The course exposes students to the life, culture, and history of the classical Roman world.

WL214 Latin II **1 Credit** **Grades 9-12**

Latin II will continue to prepare students to read Latin literature. This course pursues more in-depth knowledge of the structure of Latin, including a complete knowledge of the tenses and voices of Latin verbs. There is an increase in Latin vocabulary, while examining how this vocabulary has contributed so much to the English language. The stories read in Latin I will continue. At the completion of Latin II, a successful student will be ready to explore Latin literature from classical Roman times to the 17th Century.

PREREQUISITE: Latin I.

WL 314A Advanced Latin A* **1 Credit** **Grades 11-12**

Advanced Latin A is a third year of Latin for some students and a fourth year for others. Advanced Latin A and Advanced Latin B explore different bodies of Latin literature, so there is no duplication of material from year to year. New aspects of Latin grammar are part of the course as key to understanding the reading and analysis of literature in any given year. The body of literature for Advanced Latin A will be selections of the *Aeneid* by Publius Vergilius Maro.

NOTE: This course runs on an alternating year schedule and will run during the 2016-2017 school year.

PREREQUISITE: Latin II or Advanced Latin B in an alternate year.

WL 314B Advanced Latin B* **1 Credit** **Grades 11-12**

Advanced Latin B is a third year of Latin for some students and a fourth year for others. Advanced Latin B and Advanced Latin A explore different bodies of Latin literature, so there is no duplication of material from year to year. New aspects of Latin grammar are part of the course as key to understanding the reading and analysis of literature in any given year. The body of literature for Advanced Latin B will be selections from *Caesar*, *Ovid*, and other selected authors.

NOTE: This course runs on an alternating year schedule and will not run during the 2016-2017 school year.

PREREQUISITE: Latin II or Advanced Latin A in an alternate year.

WL116 Chinese Language & Culture I **1 Credit** **Grades 9-12**

Chinese is an introduction to the language and culture of the Chinese people. Spoken language, writing systems, art, customs, folklore, geography, and history will all be addressed in this class. Students interested in comparative languages and culture are encouraged to take this class.

NOTE: The instructor of this class will be a visiting teacher from China.

SUPPLIES: Students are encouraged to purchase their own Chinese to English dictionary.

WL216 Chinese Language & Culture II **1 Credit** **Grades 10-12**

Students are invited to continue their study of Chinese language and culture in a course where more emphasis will be placed on conversational Chinese as well as on reading and writing pinyin and Chinese characters. Upon successful completion of the course, students will be able to converse freely in a number of different situations, such as at airports, restaurants, hotels, and in social venues.

PREREQUISITE: Intro to Chinese Language & Culture.

NOTE: The instructor of this class will be a visiting teacher from China.

SUPPLIES: Students are encouraged to purchase their own Chinese to English dictionary.

WL316 Chinese Language & Culture III **1 Credit** **Grade 11-12**

This course is a continuation of Chinese II. This course is a study of the Chinese language, with special emphasis on developing skills in speaking, reading, and writing. The study of the culture and geography of China will be continued. Special attention will be given to understanding China's developing role in today's global economy.

PREREQUISITE: Chinese II.

NOTE: The instructor of this class will be a visiting teacher from China.

SUPPLIES: Students are encouraged to purchase their own Chinese to English dictionary.

Global Studies Travel

Global Studies Travel represents courses in which classes take place at John Stark in preparation for the "lab" portion of the course, which takes place in nations outside the United States. These courses offer a .25 to .5 credit from the departments of World Languages, Science, and Art, depending on the focus of the course and overseas lab work.

Global Studies Travel experiences are elective classes that take place before the main bell schedule. Courses are based on teacher recommendation and require a financial obligation for all travel related to the course.

GTC651 Global Studies Travel - Classical Voyage 2017 **.5 Credit** **Grades 10-12**

Classical Voyage is a 10-day course studying abroad in Greece focusing on Greek mythology, culture and language. No foreign language experience is required to participate. Upon successful completion of the program, credit is awarded in Art History. Meetings are required before the trip to prepare for this International experience. Coursework will reflect sites and cultural experiences the students will encounter. Upon return from Greece, students work independently on their approved project for presentation.

This course requires 14 weeks of pre-fieldwork coursework in the classroom, two weeks in the field and three post-fieldwork classroom meetings to prepare for EXPO. This fieldwork opportunity welcomes all mature John Stark students, regardless of enrolment in particular courses, who meet the following criteria: (1) will pay the cost of the trip; (2) have or will have a valid U.S. Passport and other required documents; (3) are in students in good standing and (4) demonstrate a genuine interest in learning from an overseas experience. Interested students must see Art Department faculty for application information, course competencies, and syllabi.

Note: Teacher recommendation and application are required.

GTC654 Global Studies Travel – Spain 2017 **.5 Credit** **Grades 10-12**

Spain 2017 is a course designed by the World Languages Department and explores a number of significant destinations throughout the Iberian Peninsula. This course requires 14 weeks of pre-fieldwork coursework in the classroom, two weeks in the field and three post-fieldwork classroom meetings to prepare for EXPO. This fieldwork opportunity welcomes all mature John Stark students, regardless of enrolment in a world language course, who meet the following criteria: (1) will pay the cost of the trip; (2) have or will have a valid U.S. Passport and other required documents; (3) are in students in good standing and (4) demonstrate a genuine interest in learning from an overseas experience. Interested students must see World Language faculty for application information, course competencies, and syllabi.

Note: Teacher recommendation and application are required.

Global Studies Travel 2018

Students can anticipate two offerings in 2018: one to France and another to a Spanish-speaking country in the Caribbean, Central or South America.

OTHER ACADEMIC PROGRAMS

OAP901 Peer Leadership Training **1 Credit** **Grades 11-12**

This elective year-long course is open to John Stark seniors and juniors only. This course will match Peer Leaders with incoming freshmen in order to foster personal, educational, ethical, and moral growth in both populations. In addition to developing a positive school culture, the program will also afford seniors and juniors valuable leadership experiences while assisting freshmen with the transition from the sending schools into the John Stark community. Peer Leaders will attend a leadership retreat and work within their local community and schools to implement leadership training.

PREREQUISITES: Application process and teacher recommendation.

OAP902 Work Experience **.5 Credit** **Grades 11-12**

This course presents a unique opportunity for a student to understand successful workplace practices and explore careers. The course includes a classroom component that addresses job-related skills and issues, combined with on-site experiences in an approved workplace (approximately 45 hours). The student will work (non-paid) under supervision in a selected business or service setting. The school will contact employers and establish an appropriate job-site for qualified students. Credit is based on work-site evaluations, weekly documented hours at the work-site, and successful completion of classroom assignments.

PREREQUISITES: Students must provide their own transportation.

OAP903 Internship **.5 Credit** **Grades 11-12**

This internship program provides a worksite experience in which a student, with guidance and support at the workplace, completes a planned series of learning objectives or projects designed to give a broad understanding of the chosen career or job interest (approximately 70 hours). The student will be able to apply school-based learning and knowledge to real-world settings. The school will contact employers and establish an appropriate job-site for

qualified students. Credit is based on employer evaluations, documented worksite hours, and a final project/demonstration.

PREREQUISITES: Successful completion of Work Experience. Students must provide own transportation.

OAP906 Capstone Seminar

No Credit Grades 11-12

This course will assist students in completing the senior capstone project. Activities will include proposal development, mentor selection, organization of materials, learning log management, and reflective paper writing. This class will also assist in planning and organizing various other graduation requirements, such as community service.

NOTE: Available to seniors during semesters 1 and 2 and to juniors, on a space-available basis, during semester 2.

Drivers Education

.25 Credit

Age reqt.

This program is offered through:

Streetwise Driving Academy

Earl Russell

132 Normand Road

Goffstown, NH

603-497-5344

Use the following link for specific class dates and requirements:

www.streetwisedrivingacademy.org

Eligibility: Students must be 16 years of age by the class "end date".

Tuition: \$595 as of December, 2015

Classroom study includes diagnostic testing for visual perception and reaction time, as well as the study of the rules and regulations of driving as prescribed by the Motor Vehicle Department of the State of NH. Students signing up for Driver's Education must be 16 years of age before the end of the course. It is a state law that only two absences from class are permitted and all absences from class must be made up. It is recommended that students sign up for a section that does not conflict with sports or extracurricular activities. Driver Education is offered outside of regular school hours and has a limited capacity.

NOTE: Students are awarded .25 credits for successful completion of Driver's Education when official proof of completion is provided to the Counseling Center.

CONCORD REGIONAL TECHNICAL CENTER

The Concord Regional Technical Center (CRTC) is a regional career and technical school offering career-related programs. Juniors and seniors from the following high schools have the opportunity to enroll in one of their programs: Concord, Hopkinton, Bow, Merrimack Valley, Pembroke, Kearsarge, Hillsboro and John Stark.

Students enrolled at CRTC attend for one program (90 minutes) and return to John Stark. Bus transportation is provided through John Stark. Students receive 2 high school credits per year upon successful completion.

Career & Technology Education course offerings:

Year One

Automotive Technology** I
Construction Technology I
Cosmetology I
Culinary Arts & Baking I**
Graphic Arts & Digital Comm. I**
Health & Science Technology I**
Teacher Preparation I**
Extended Learning Opportunities

Paired Course A

Criminal Justice: Criminology**
Fire Science: Firefighter I
Information Technology: Programming
& Robotics**
Stagecraft: Technical Theater

Year Two

Auto Technology II**
Construction Technology II
Cosmetology II
Culinary Arts & Baking II**
Graphic Arts & Digital Comm. II**
Health & Science Technology II**
Teacher Preparation II**
Extended Learning Opportunities

Paired Course B

Criminal Justice, Criminal Law**
Fire Science: EMT
Information Technology: Computer
Repair & Networking**
Stagecraft: Technical Theater

*****(Project Running Start)***

Many of the Concord Regional Technical Center programs offer a dual enrollment option. Dual enrollment is the optional opportunity for students to earn college credits while in high school. One such program is the NH Community College System's *Project Running Start*. With Running Start, a relationship is formalized between one of our programs and a particular community college course. Once established, students pay approximately \$150 (financial aid is available) at the start of our course and, upon satisfactory completion, earn college credit, as well as high school credit. This course is listed on a college transcript, which students receive in addition to their high school transcript. In most cases, the college course expectations are fully integrated into the class and no additional work is expected. In addition to *Project Running Start*, we have additional Dual Enrollment relationships with other colleges, such as Southern New Hampshire University, that work in a similar fashion. We strongly urge every student to participate.

All relationships are re-established on an annual basis and are not guaranteed until the start of the school.

To prepare students for success, our entire organization focuses its energies upon helping students develop and improve both their hard skills (technical skills) and soft skills (personal and interpersonal skills). We take pride in establishing performance targets that are valued by industry and higher education. The CRTC specifically defines and measures the following soft skills for every student: collaboration and teamwork (Leadership), conduct and attitude (Professionalism), feedback and responsiveness (Ambition), work readiness and work ethic (Integrity), resourceful and determination (Grit).

Demonstrating the best of these skills is emphasized and expected of all students. Many of our students earn the opportunity to complete an internship or job shadow experience, where possessing effective soft skills is a non-negotiable requirement, given that students will be interacting with valued customers, clients, and employees. Students who succeed at the CRTC understand these expectations and strive for feedback and improvement at all times.

STATEMENT OF ACCREDITATION

John Stark Regional High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution. Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the school or college. Individuals may also contact the Association:

New England Association of Schools and Colleges
209 Burlington Road, Bedford MA, 01730; (781) 271-0022
www.neasc.org

NOTICE OF NONDISCRIMINATION

The John Stark School District does not discriminate on the basis of race, color, religion, marital status, national/ethnic origin, age, sex, sexual orientation, or disability in its programs, activities, and employment practices.

The following person has been designated to handle inquiries regarding the nondiscrimination policies:

Sandra Pickering, Director of Student Services
SAU #24
258 Western Avenue
Henniker, NH 03242
(603) 428-3269
sandra.pickering@sau24.org