

# 2025-2026 | Course Bulletin



**THE SJA EXPERIENCE**

## Our Mission

This is the mission of St. Johnsbury Academy, a diverse, comprehensive, and independent educational community grounded by our traditions, our deep optimism regarding young people, and our commitment to academic excellence:

### CHARACTER

*To teach good character by modeling and fostering compassion, respect, responsibility, and integrity.*

### INQUIRY

*To foster a love for learning by challenging individuals to pursue knowledge, creativity, and intellectual self-reliance.*

### COMMUNITY

*To encourage each individual to understand his or her relationships, rights, and responsibilities within a community that is itself part of the larger world.*

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# Course Selection Guide

St. Johnsbury Academy is a comprehensive, co-educational secondary school serving students in grades 9 through 12 and a post-graduate year. In describing itself as comprehensive, the Academy intends that its curriculum will meet the needs of all of our students. We offer a wide range of subjects and sequences at different levels of difficulty. A careful reading of this curriculum guide will help ensure that parents and students make the best choices from the extensive options available.

## Grade Progression

St. Johnsbury Academy is a four-year institution. Students normally progress from the ninth through the twelfth grades and graduate by accumulating credits through successfully passing courses of study. As long as a student has acquired sufficient credits so that they can make up missed credits and graduate with their current class, even if they have fallen behind in their required courses, they will advance from grade to grade with their class.

## Graduation Requirements

In order to be granted a diploma by St. Johnsbury Academy, a student must complete four years of study at the secondary level and accumulate 26 credits. (See the chart “Graduation Requirements”.)

The decisions that students and parents make in their choice of courses and in the sequence of courses are extremely important. The choices made for the freshman and sophomore years will strongly affect the options available for the junior and senior years. To help visualize several options, we have included model paths that typical students might follow at the Academy. They can be found starting on page 35.

Please refer to the individual departmental sections for further explanation of graduation requirements.

St. Johnsbury Academy will not accelerate graduation. Students must achieve four calendar years of study at the secondary level in order to qualify for graduation from the Academy.

### GRADUATION REQUIREMENTS

COURSE	CREDITS
Senior Capstone .....	1 credit
English .....	4 credits
Science .....	3 credits
Mathematics .....	3 credits
Social Studies .....	3 credits
Physical Education .....	2 credits
Health .....	1 credit
Electives .....	9 credits
<b>Total Needed .....</b>	<b>26 credits</b>

## Levels of Instruction

As a comprehensive school, we admit students with a wide range of skills, interests and backgrounds. We believe that students learn best when the material that they experience is presented in a form and at a degree of difficulty matched to their previous achievement. In nearly all of our academic departments, students are homogeneously grouped; that is, they are placed in instructional sections with students of similar previous achievement and academic preparation.

All of our academic departments offer courses at five levels of instruction: individualized services, basic, standard, accelerated, and Advanced Placement™ (AP).

- Students who are placed in individualized services level are those students who require intensive daily support and remediation based on education, behavioral, and/or emotional needs.
- Students who are placed at the basic level have demonstrated a need for instruction in the foundational skills required to learn the material of the course. They benefit from a more gradual introduction to the subject material that allows them to master the content of the course with the supports that will help them achieve success.
- Students who are placed at the standard level of a course have demonstrated levels of achievement and background typical of most high school students. They possess the skills and the requisite information that enable them to be successful in this college preparatory curriculum.
- Students who are placed in the accelerated level of a course have demonstrated high levels of achievement and demonstrate deep background knowledge in the subject. They possess skills and information that enable them to master material at an accelerated pace.

Students new to the Academy are placed in various levels of instruction after review of transcripts from previous schools, recommendations of teachers and guidance personnel, parental and student wishes, and consultations with the appropriate department chair. When clarity is needed, students may be asked to take math and language placement tests. Students are not placed automatically at a given level of instruction in any department simply because they are in that level of instruction in another department. It is quite common for students at the Academy to be placed at different levels of instruction in different departments. Furthermore, if students experience success at a specific level, we encourage students to move to a higher level. In particular, it is the aim of the basic courses at the Academy to equip students to move to the standard levels of instruction as soon as possible. In each department, personnel meet regularly to make sure that students are appropriately placed.

Many of our non-academic and some of our academic courses are heterogeneously grouped; that is, a student will be placed in them without reference to already acquired skills and knowledge. Some of these courses are Senior Capstone, Physical Education, Health, and some technical and fine arts courses.

After courses have been assigned, level changes are made only by the relevant Department Chair or the Assistant Headmaster for Academics and Student Life..

### Advanced Placement Program

The Advanced Placement program of the College Board is offered to students who have demonstrated a superior understanding of the subject matter and have signified their desire to challenge themselves in a college level course while still in high school (9th graders may only participate with approval from the Academic Office). Successful completion of an AP exam is recognized by many major colleges and universities for advanced placement or credit, at the institution’s discretion. The Academy offers 28 Advanced Placement courses including: English Language and Composition, English Literature and Composition, United States History, European History, World History, United States Government and Politics, Microeconomics, African American Studies, Psychology, Pre-Calculus, Calculus AB, Calculus BC, Statistics, Computer Science A, Computer Science Principles, Biology, Chemistry,, Physics C: Mechanics, Physics C: Electricity and Magnetism, Environmental Science, Studio Art: Drawing and Painting, Studio Art: 2D, Studio Art: 3D, French Language and Culture, Spanish Language and Culture. Latin, and the AP Capstone Program (AP Seminar and AP Research). Students who take Advanced Placement courses are required to take the nationally administered Advanced Placement exam at the end of each course. Payment for the Advanced Placement exam is due prior to the exam.

### SNHU in the High School Dual Enrollment Program

Southern New Hampshire University in the High School’s dual enrollment program with St. Johnsbury Academy allows qualified high school students (sophomores, juniors or seniors) the opportunity to earn college credits while in high school. At St. Johnsbury Academy, designated courses have been aligned to meet the same content, rigor, and learning outcomes as that of the University. The high school teachers instructing these courses meet the University’s adjunct faculty requirements and have been approved by the University. Students will have the opportunity to take advantage of the dual credit opportunities at the beginning of the courses by completing an application and submitting the course registration fee for each class. Once the registration period closes, students will not be allowed to register for college credit. Since these courses are college courses, credit will be awarded by St. Johnsbury Academy and Southern New Hampshire University. SNHU credit portability and transferability rests solely with individual colleges and universities as they have varying policies on accepting transfer credits; thus, it is the student’s responsibility to obtain a transcript from SNHU and to consult with higher educational institutions to determine whether the SNHU course(s) can be transferred. Additional information regarding the program can be directed to the Director of Guidance. In order for a dual enrollment course to run, a minimum of six students must be enrolled.

### Advanced Placement Capstone Diploma™ and Certificate™ Program

The AP Capstone Program is a two-course sequence consisting of AP Seminar and AP Research that allows students to explore real-world issues while developing the analytic, research, problem solving, and communication skills that colleges look for in an applicant.

Students typically take AP Seminar in the 10th or 11th grade, followed by AP Research in 12th grade. Students who earn scores of 3 or higher in the AP Seminar and AP Research courses and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. This signifies their outstanding academic achievement and attainment of college-level academic and research skills.

Alternatively, students who earn scores of 3 or higher on the AP Seminar and Research Exams only will receive the AP Seminar and Research Certificate.

Current St. Johnsbury Academy courses offered for dual credit include:	
St. Johnsbury Academy Course	SNHU Course
Rhetoric and Composition ACC	College Composition I
Literature and Composition ACC	Introduction to Literature
Creative Writing ACC	Introduction to Creative Writing
Advanced Creative Writing	U.S. History II: 1865-Present
United States History ACC	World Civilizations: 1500-Present
World Civilization Post 1500 ACC	Western Civilization Since 1500
AP European History	Microeconomics 201
AP Microeconomics	Applied Statistics
Applied Statistics ACC	Calculus I: Single Variable
Applied Calculus ACC	General Biology I
AP Biology	General Biology II
AP Biology Prep	Physics I with Lab
AP Physics C: E & M	Introduction to Anatomy and Physiology with Lab
Anatomy & Physiology ACC	Fundamentals of Chemistry with Lab
Chemistry ACC	Beginning French I
French I ACC	*Beginning French II
French II ACC	*Intermediate French I
French III ACC	*Intermediate French II
French IV ACC	Beginning Spanish I
Spanish I ACC**	*Beginning Spanish II
Spanish II ACC**	*Intermediate Spanish I
Spanish III ACC**	*Intermediate Spanish II
Spanish IV ACC**	
*SNHU dual enrollment in French and Spanish language courses, requires beginning with Beginning French I/Beginning Spanish I.	
**Please note, not all Spanish teachers are certified to teach SNHU courses. Please check with the Language Department Chair for clarification.	

## The Academic Support and Enrichment Services Center

The Academic Support and Enrichment Center (also known as the Academic Support and Enrichment Services Center) is professionally staffed with faculty representing core disciplines. The Center offers a resource for students to seek support or enrichment in their studies as they pursue their academic interests and realize their potential. Students can access the Center during their unscheduled blocks or study halls.

## Grade Reporting

Grades are reported to students and parents four times per semester: interim, mid-semester, second interim, and at the end of each academic term. Report cards consist of a list of courses taken, the teacher of each course, and the grades for the period being reported. After the name of each course there is a parenthetical abbreviation which signifies the level of instruction at which the course is offered.

There are five abbreviations: IS (Individualized Services), BA (Basic), ST (Standard), ACC (Accelerated), and AP (Advanced Placement). Students will earn credit in all courses that they have successfully completed after each semester of work.

The Academy acknowledges superior student achievement with two published lists, the high honor roll and the honor roll. Honor rolls are determined by mid-semester and semester grades. (Refer to Student Handbook).



# Courses of Study

## HUMANITIES

*All freshmen are required to take this course which satisfies 1 English and 1 Social Studies credit.*

### Humanities (Basic)

2 CREDITS/FULL YEAR (1911/1912)

### Humanities (Standard)

2 CREDITS/FULL YEAR (1913/1914)

### Humanities (Accelerated)

2 CREDITS/FULL YEAR (1915/1916)

This cross-disciplinary, writing-intensive course will introduce students to the skills necessary for their future success at the Academy. Students will apply the skills they learn in the areas of composition, critical thinking, and problem solving to the study of the human condition. Students will examine a variety of texts, both historical and contemporary, as a means of building connections to the course's guiding themes.

## COLLEGE SEMINAR

### Senior College Seminar (Standard)

¼ CREDIT (7100)

This pass/fail course will meet every other day during 1st quarter to provide students with regular opportunities to work on their college applications. Topics covered in the course will include finalizing a college list, understanding college application types and deadlines, writing your application essays, standardized testing, asking teachers for letters of recommendation, keeping track of important details, and a general overview of the financial aid and scholarship process. This class is designed to supplement regular meetings with your college counselor. It will provide students with opportunities to seek feedback and stay organized as they look to create the strongest possible college applications.

### Junior College Seminar (Standard)

¼ CREDIT (7101)

This pass/fail course will meet every other day during 4th quarter to provide students with regular opportunities to get a jumpstart on the college application process. Topics covered in

the course will include researching colleges, determining the right "fit," creating a college list, understanding college application types and deadlines, brainstorming application essays, standardized testing, asking teachers for letters of recommendation, keeping track of important details, and a general overview of the financial aid and scholarship process. This class is designed to supplement regular meetings with your college counselor. It will allow students to seek feedback and stay organized as they create the strongest possible college applications.

## SENIOR CAPSTONE

*1 credit required for graduation.*

All seniors are required to complete a Senior Capstone investigation. The Academy sees the Capstone course as a culmination of all previous learning; it serves as an opportunity for students to demonstrate their mastery of our standards as they head to college, careers, and carry their overall Academy experience into their personal and professional lives. On Senior Capstone Day, in early December and early May, seniors present their Capstone projects to their peers, faculty members, trustees, and members of the community.

### Senior Capstone (Accelerated)

1 CREDIT (7701)

This required, one-semester, heterogeneously grouped, interdisciplinary course will serve as an opportunity for seniors to demonstrate their ability to meet Academy standards as a culmination of all of their previous course work and a springboard into their post-secondary careers. The domain of the course will include three main components:

- 1. Problem-solving:** Discipline-specific research methods, field research, and critical inquiry
- 2. Communication:** Discipline-specific writing formats, editing, revision, and public speaking
- 3. Citizenship:** Defining the characteristics of a professional and acting and producing to that definition.

While the vast majority of seniors satisfy their capstone requirement in the 7701 course, other courses that satisfy the Capstone graduation requirement are:

1062 – AP Research (English Department)

7705 – Visual Arts Capstone (Fine Arts Department)

7703 – ESL Capstone (ESL Department)

4853 – Engineering Design and Development Capstone (Science Department)

7706/Spring Semester – CTE Field Studies Capstone

Must be combined with 4999/Fall Semester – Environmental Studies Field Semester. Meets every other day. (Science Department)

7707 – CTE Capstone (Career and Technical Education Department)

For more information on these offerings, see the entry for these courses in the appropriate department sections of the course bulletin.

## ENGLISH

*4 credits are required for graduation. For those students who have taken Humanities, 3 additional core credits are required for graduation. All students are required to complete one core English course each academic year.*

The English Department recognizes a double responsibility to its students. On the one hand, students need to master specific skills essential to the proper use of language. On the other hand, students growing quickly into adulthood need to know how to write, how to read, how to create, and how to be critical thinkers in a world that demands increasingly complex choices. These are talents whose developments are interconnected, often simultaneous, and never completed in a lifetime. The English curriculum is designed to help students continue to improve their language skills and further expand their developing talents.

## Core Courses

### Literary Perspectives (Basic)

1 CREDIT (1031)

*Prerequisite: Humanities or equivalent  
Open to Sophomores*

### Literary Perspectives (Standard)

1 CREDIT (1033)

*Prerequisite: Humanities or equivalent  
Open to Sophomores*

## Literary Perspectives (Accelerated)

1 CREDIT (1035)

*Prerequisite: Humanities or equivalent Open to Sophomores; with departmental approval*

This Sophomore course emphasizes the importance of inquiry while supporting skills in reading, analysis, and research. Students will identify main ideas and arguments in texts; identify ways in which writers develop these ideas through characterization, plot, structure, and other literary devices and strategies; reflect on the effectiveness of literary arguments; and consider how context and occasion influence authorial decisions and literary works.

Students will also be required to develop their own perspectives and communicate via written, oral, and visual mediums, both independently and collaboratively, and synthesize a variety of genres and texts.

Upon completion of this course, students will be able to analyze and evaluate a variety of texts and have the ability to communicate ideas, using a variety of methods, supported by evidence.

## AP Seminar

1 ½ CREDITS (1060/1064)

*Open to Sophomores and Juniors; with departmental approval*

In the first year of the two-year AP Capstone Program sequence, students will develop and strengthen their analytic and inquiry skills, exploring in detail three to five relevant issues selected by the instructor. They will learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions.

During the course, students will complete a team project and presentation, an individual reflection, and an individual paper and presentation. Students are required to take the AP Seminar written exam.

## Technical Communications I (Standard)

1 CREDIT (1063)

*Prerequisite: Literary Perspectives or equivalent Open to Juniors*

This standard-level course is open to juniors who are enrolled in a career and technical education course and who anticipate continuing their education at a technical college or institute. Students will be introduced to the principles of effective communication in the workplace. Special attention will be given to workplace ethics. Students will research topics of personal and vocational interest, explore career plans and opportunities, and present information and opinions to various

audiences. In class projects, students will solve realistic problems using critical thinking and decision-making skills.

## Rhetoric and Composition (Standard)

1 CREDIT (1053)

*Prerequisite: Literary Perspectives or equivalent Open to Juniors*

## Rhetoric and Composition (Accelerated)

1 CREDIT (1055)

College credit is available through Southern New Hampshire University's dual enrollment course College Composition I.

*Prerequisite: Literary Perspectives or equivalent Open to Juniors*

Through this Junior course, students immerse themselves in argumentative and persuasive writing. They will then refine academic writing and research skills through the Research Based Inquiry project. Thematic units provide a platform for critical thinking about American ideals and individual self-understanding.

## AP English Language and Composition

1 ½ CREDITS (1058/1059)

*Prerequisite: AP Seminar or Literary Perspectives Open to Juniors; with departmental approval*

This two-semester course leads directly to the taking of the Advanced Placement examination in English Language and Composition in the spring. The course prepares students for the AP examination, including critical reading, rhetorical and stylistic analysis, and argumentation. Students will refine their academic writing and research skills through the Research Based Inquiry project. The class process will feature seminar discussions of the assigned readings. Although primarily a study of nonfiction texts, the course will supplement its core readings with poetry and fiction drawn from the major periods of American literature.

## Technical Communications II (Standard)

1 CREDIT (1083)

*Prerequisite: Technical Communications I or with departmental approval*

This course is open to seniors who are enrolled in a minimum of two blocks of career and technical education and who anticipate continuing their education at a technical college or institute. Students will research topics of personal and vocational interest, explore career plans and opportunities, and present information and opinions to various audiences. In class projects, students will solve realistic problems using critical thinking and decision-making skills.

## Literature and Composition

1 CREDIT (1073)

*Prerequisite: Rhetoric and Composition or equivalent Open to Seniors*

Students can choose one of the following:

### Vampire, Werewolves, and Monsters

Emphasis will be on works that explore the darker and crueler impulses of human nature, impulses that lead to cultural taboo, fear, and xenophobia.

### Science Fiction and Technology

Emphasis will be on works that explore our future landscapes (sometimes in the not-so-distant future), as well as human conflict that arises when technologies and systems surpass our ability to manage and control them.

### The Graphic Novel as Literature

Emphasis will be on the graphic novel and how images, text, and sequencing combine to explore society, culture, and identity.

### Hearing Marginalized Voices

Emphasis will be on themes of power and agency in literature. Works by voices often overlooked in traditional studies of literature—people of color, women, immigrant, impoverished, and will be investigated.

Each of the above areas of concentration teaches college-preparatory logic and analysis through reading, writing, speaking, and listening. The course—regardless of its focus—examines significant works of literature that reveal the diversity of the human experience and the depths to which literature explores our flaws for the purpose of improvement. As John Steinbeck wrote in his Nobel Prize acceptance speech: “Literature is as old as speech. It grew out of human need for it, and it has not changed except to become more needed.” Students will write a variety of essays that build upon modes introduced in Rhetoric and Composition.

## Literature and Composition (Dual Enrollment)

1 CREDIT (1075)

College credit is available through Southern New Hampshire University's dual enrollment course Introduction to Literature.

*Prerequisite: Rhetoric and Composition or equivalent Open to Seniors*

This senior course teaches introductory college level logic and analysis through reading, writing, speaking, and listening. The course examines significant works of literature that reveal diversity of the human experience and the depths to which literature explores our flaws for the purpose of improvement. As John Steinbeck wrote in his Nobel Prize acceptance speech: “Literature is as old as speech. It grew out of human need for it, and it has not changed except to

become more needed.” Students will write a variety of essays that build upon modes introduced in Rhetoric and Composition.

### AP English Literature and Composition

1 CREDIT (1079)

*Prerequisites: concurrent enrollment in AP Research Open to Seniors; with departmental approval*

This course leads directly to the taking of the Advanced Placement examination in English Literature and Composition in the spring. The course introduces and reinforces skills that will allow students to do well on the AP exam. It engages students in a wealth of literature and a range of genres, reading both widely and deeply; students also write critical analysis, including expository, analytical, and argumentative essays. Students will refine college-level critical thinking skills through the interpretation of prose, poetry, and drama, with a focus on British literature. The Senior Capstone experience required for graduation is also embedded in the course.

### AP Research

1 CREDIT (1061)

*Prerequisite: AP Seminar and concurrent enrollment with Accelerated English Literature and Composition or AP English Literature and Composition Open to Seniors; with departmental approval*

Students will work on an independent research project on a topic of interest. At the end of the research project, they will submit an academic paper of about 5,000 words and defend their research through a presentation. Additionally, students will present the application of their research at our spring Capstone day.

## Elective Courses

### Creative Writing (Accelerated)

1 CREDIT (1007)

College credit is available through Southern New Hampshire University’s dual enrollment course Introduction to Creative Writing.

*Open to Sophomores, Juniors, and Seniors*

Students will create portfolios of their own work in the genres of short fiction, poetry, and playwriting; the portfolio will contain selections from their daily writing journal as well as finished and revised pieces. Students will read widely in these genres from selections of both older and contemporary works chosen by the class, and achieve a sophisticated understanding of the fundamental elements of those genres. The course will include field trips to attend writing festivals and poetry slams as well as trips to local colleges for readings.

### Advanced Creative Writing (Accelerated)

1 CREDIT (1008)

*Prerequisite: Creative Writing (Accelerated) Open to Sophomores, Juniors, and Seniors. Open to Freshman with departmental approval*

Seniors who wish to pursue intensive study of creative writing may take Creative Writing a second time for credit. In consultation with the instructor, the students in this course will embark on a demanding course of study in two genres of his/her choice, one per quarter. These may include poetry, short fiction, script writing, the novella, and children’s literature. Students taking Advanced Creative Writing will have class with Creative Writing students. Admission will be reserved for those students who have demonstrated a sincere, significant interest in pursuing creative excellence and whose post-secondary plans include creative writing study.

### Public Speaking (Accelerated)

1 CREDIT (1001)

*Open to Sophomores, Juniors, and Seniors*

This course enables students to speak and write effectively for a wide variety of purposes and audiences. Through the study of form and communication, students learn to use storytelling, personal statements, persuasion and vocal techniques to express their ideas at formal, informal and social events. Students will leave this class able to speak confidently and comfortably in front of almost any audience.

### College Writing (Standard)

1 CREDIT (1003)

*Open to Juniors and Seniors*

### College Writing (Accelerated)

1 CREDIT (1004)

*Open to Juniors and Seniors.*

This course is designed to enhance the language and writing of skilled college-bound students. It will examine strategies for writing effective college admissions essays and will study the SAT with a particular emphasis on vocabulary, timed-writing, and reading comprehension.

## SOCIAL STUDIES

*3 credits are required for graduation. For those students who have taken Humanities, 2 additional core credits are required for graduation. All Students are required to complete Humanities or the equivalent; World Civilization, Post-1500, AP European History, or AP World History; and United States History.*

One of the stated objectives of education is to produce good citizens. In a democracy, this means informed, involved citizens—persons who are willing and able to understand and act upon the critical issues of their times. The Social Studies are replete with controversy: questions of power, decision-making, leadership, duties of citizens, goals for the nation, freedoms for individuals, equity of opportunity, distribution of wealth, war and peace; these are issues that must be studied in their historical context, re-examined, and acted upon by each new generation of Americans. Divisions of opinion are inevitable but an informed, involved, critical thinker is better able to pursue their task of citizenship.

All Academy students are required to successfully complete Humanities, World Civilization, Post-1500, and United States History. These courses must be taken sequentially and elective courses may also be inserted into a student’s curriculum. AP European History and AP World History may be substituted for World Civilization, Post-1500 and AP United States History may be substituted for United States History.

Acceptance into AP courses requires the recommendation of the department.

## Core Courses

### World Civilization, Post-1500 (Basic)

1 CREDIT (2911)

*Prerequisite: Humanities*

### World Civilization, Post-1500 (Standard)

1 CREDIT (2913)

*Prerequisite: Humanities*

### World Civilization, Post-1500 (Accelerated)

1 CREDIT (2915)

College credit is available through Southern New Hampshire University’s dual enrollment course World Civilizations: 1500-Present.

*Prerequisite: Humanities*

This course will explore the major themes of historical change in the world from 1500 to 1800. Citizenship, government, and revolution are key strands of the course. It will also enable students to work on those Social Studies department standards that have not yet been mastered.

### AP World History

1 ½ CREDIT (2916/2917)

*Prerequisite: Humanities or with departmental approval*

This college-level course prepares students



for the Advanced Placement examination. This course focuses on developing students' understanding of world history from approximately 1200 CE to the present. Students will investigate the content of world history for significant events, individuals, developments, and processes in six historical periods while they develop essential historical thinking skills. The course focuses on five interconnected themes, encouraging students to make connections between different eras in regions, including Africa, the Americas, Asia, Europe, and Oceania. This course fulfills the World Civilization, Post-1500 requirement. This class will be held every other day in the first semester and will meet every day in the second semester.

### AP European History

1 ½ CREDITS (2918/2919)

College credit is available through Southern New Hampshire University's dual enrollment course Western Civilization Since 1500.

*Prerequisite: Humanities or with departmental approval*

This college-level course prepares students for the Advanced Placement examination in European History. The course includes a profound study of European history beginning with the late Middle Ages and continuing through the Cold War, including a demanding reading schedule and the practice of AP testing elements. AP European History meets for the entire year. The class will be held every other day in the first semester and will meet every day in the second semester. It fulfills the World Civilization, Post-1500 requirement.

### United States History (Basic)

1 CREDIT (2151)

*Prerequisites: Humanities and World Civilization, Post-1500  
Open to Juniors*

### United States History (Standard)

1 CREDIT (2153)

*Prerequisites: Humanities and World Civilization, Post-1500  
Open to Juniors*

### United States History (Accelerated)

1 CREDIT (2155)

College credit is available through Southern New Hampshire University's dual enrollment course U.S. History II: 1865-Present.

*Prerequisites: Humanities and World Civilization, Post-1500  
Open to Juniors*

This survey course will expose students to the history of the United States in a chronological approach from the founding of the United States to the present. The course will focus on

active citizenship and will highlight the study of United States history through political and economic lenses.

### AP United States History

1 ½ CREDITS (2158/2159)

*Prerequisites: Humanities and World Civilization, Post-1500, AP World History, or AP European History; with departmental approval  
Open to Juniors*

This Junior college-level course is taught to prepare students to take the Advanced Placement United States History exam and requires a level of critical thinking and writing commensurate with college work. This course meets for the entire year. The class will be held every other day in the first semester and will meet every day in the second semester.

### AP African American History

1 ½ CREDIT (2160/2161)

*Prerequisites: Successful completion of Humanities and World Civilizations Since 1500 (or the equivalent). This class is open to juniors and seniors.*

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with varied sources. Students explore topics from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora. It fulfills the United States History requirement.

## Elective Courses

### Comparative Religions (Accelerated)

1 CREDIT (2960)

*Prerequisites: Successful completion of Humanities and World Civilizations since 1500 or Department Chair recommendation*

Religion is one of the primary ways humans engage with questions of life and death, of love and hate, of good and evil—questions at the core of the human condition. The aims of this course are to develop critical analytical and comparative skills through an introduction to the teachings, practices, and cultural impact of the religions of the world and to gain appreciation for the place of religion in human experience. Further, the study of personal beliefs and values is key to the development of empathy and respect.

The course will explore seven major religious traditions as well as several that have

remained peripheral throughout history. This course is designed to give students a broad view of the world's religious landscape and to encourage them to probe more deeply into an area they find particularly interesting or meaningful. And because the study of religion touches all facets of human experience, it is able to shed light on fields of study such as history, philosophy, politics, sociology, and anthropology.

### Sociology and Criminology (Standard)

1 CREDIT (2949)

*Prerequisite: Humanities*

### Sociology and Criminology (Accelerated)

1 CREDIT (2950)

*Prerequisite: Humanities*

This semester-long course is designed as a compliment to both our Psychology and Career Explorations Curriculum. It provides students with a general overview of Sociology while looking specifically at Criminology with a concentration on deviance and social control. Along with the topics such as, social structure/socialization, sex and gender, race and ethnicity, the family, crime, punishment, theories of deviance, recidivism and rehabilitation, this course will allow for an individual concentration relative to a social group of the student's choice. Each student will be responsible for content knowledge and individual research on this social group throughout the semester.

### AP United States Government and Politics

1 ½ CREDITS (2178/2179)

*Prerequisites: Humanities and United States History  
Open to Seniors or with departmental approval*

This college-level course prepares students to take the AP United States Government and Politics examination. It further prepares students for roles as community leaders and responsible, active citizens using the competitive "We the People..." program, in order to strengthen their critical thinking and extemporaneous speaking skills. The "We the People..." program culminates in a State congressional hearing competition in January. Additionally, students investigate core concepts of political science: consuming and producing polls, analyzing charts and graphs, predicting voting behavior, analyzing demographic data, and understanding the essential ideas about political parties, campaigns, and elections.

Furthermore, by the end of the course, students will understand influences on the policy agenda and the process of policy making and enactment. The course will

close with a study of economic naturalism. The class will meet every-other day in the first semester, and every day in the second semester.

### AP Microeconomics

1 ½ CREDITS (2218/2219)

College credit is available through Southern New Hampshire University's dual enrollment course Microeconomics 200 level.

*Prerequisites: Humanities and United States History Open to Seniors or with departmental approval*

This college-level course prepares students for the Advanced Placement examination in Microeconomics. Students will investigate the core concepts of microeconomics. Students taking AP Microeconomics may also elect to sit for the Advanced Placement exam in Macroeconomics with approval from the Social Studies Department Chair and Academic Dean. Additional out of class work will be required to prepare for the Macroeconomic Exam. This class will meet every-other day in the first semester, and every day during the second semester.

### Psychology (Standard)

1 CREDIT (2923)

*Prerequisites: Humanities; open to Sophomore, Juniors, and Seniors*

### Psychology (Accelerated)

1 CREDIT (2925)

*Prerequisite: Humanities Open to Sophomores, Juniors, and Seniors*

Students will gain a knowledge of the basic theories of human behavior and interaction through readings, discussion, multimedia, and field research

### AP Psychology

1 ½ CREDIT (2928/2929)

*Open to Juniors and Seniors; with departmental approval*

This college-level course prepares students for the Advanced Placement examination in Psychology and includes an in-depth study of the biological, cognitive, developmental, social, and clinical aspects of psychology. This class will meet every day in the first semester and every other day in the second semester.

### Contemporary Issues (Accelerated)

½ CREDIT (2946)

*Prerequisite: Humanities*

Using current events, this elective course focuses on national, global, and local issues that affect students' everyday lives, such as economics, government, and conflict. This course uses newspapers, online media, cartoons, and newscasts to support class

discussion. Additionally, students participate in group projects, presentations and work with primary source materials and opinion pieces in order to better understand the world around them.

### Philosophy (Accelerated)

1 CREDIT (2935)

*Prerequisite: Humanities*

This course will introduce students to the study and uses of philosophy, as well as the history of ideas. Students take a multi-cultural approach by reading original works of thinkers of all regions and periods, from Plato to Rumi, Axial-Age China to modern day England, and beyond. Students will examine issues such as free will, justice, religion, individual responsibility, and the quest to find meaning and fulfillment in the living of one's own life.

## MATHEMATICS

### 3 credits required for graduation

The sequence of courses will permit students to have the following experiences in math:

- View math as a blend of patterns instead of a set of isolated topics.
- Make connections; construct models and theories that order their understanding of their environment.
- Relate mathematical ideas to everyday experiences and real-world situations.
- Discover how to adjust procedures to solve new problems.
- Spend more time on each topic, enabling invention and practice.
- Create "real" connections and study those connections from concrete to abstraction.
- Develop communication, reasoning, and problem-solving skills.

Three mathematics courses are required for graduation. The mathematics program includes course offerings designed to provide opportunities for all students to learn meaningful mathematics. At several points during their academic career, student placements are reviewed to ensure that they are working at a level consistent with their goals and achievement.

Students who take standard level courses acquire a sound preparation to pursue four-year college programs, two-year technical programs, on-the-job training, or armed forces experience. Themes that are emphasized throughout include problem-solving, applications of the ideas presented,

use of the graphing calculator, writing process, and collaboration.

Students who enroll in accelerated math courses will be prepared to pursue competitive four-year college programs. These are highly motivated students with strong mathematical achievement. Themes emphasized through this sequence include problem solving, applications of the ideas presented, theory, and an appreciation of mathematics as a language. Graphing calculators are used to facilitate the teaching of these courses. One goal of the courses in this sequence is to prepare students for AP mathematics courses and beyond. Courses in this sequence differ from the equivalent standard-level course by the pace of the course, the amount of required homework, and the level of abstraction and formal proof.

Permission to take an accelerated-level course is normally predicated by maintaining a grade of at least 80 in the previous accelerated-level course or at least 90 in the previous standard-level course.

All courses use graphing calculators and/ or computers to enhance the learning of mathematics. In addition, all students are expected to write about their mathematical processes.

### Pre-Algebra (Standard)

1 CREDIT (3209)

In this course, students will review how to work with fundamental mathematical operations with integers, fractions, and decimals; use the order of operations to evaluate variable expressions; solve variable equations using transformations; translate word sentences into mathematical equations; and solve word problems. The course will guide you through the world of integers, one-step, two-step and multi-step linear equations and inequalities, using properties of exponents, calculating slope, and graphing basic linear functions. This course is designed to prepare students for the study of Algebra.

### Algebra I (Basic)

1 CREDIT (3211)

*Prerequisite: Recommendation based on prior achievement*

This course focuses on the rules of algebra with an emphasis on solving linear equations. In addition, students in this course will evaluate, analyze, and graph equations and relations. Applications of systems of equations will be studied using both algebra and analytic geometry. Data analysis and linear regression will be explored using Desmos. Students will extend the properties of exponents to rational exponents.

**Algebra I (Standard)**

1 CREDIT (3213)

*Prerequisite: Recommendation based on prior achievement; with departmental approval***Algebra I (Accelerated)**

1 CREDIT (3215)

*Prerequisite: Recommendation based on prior achievement; with departmental approval*

This course focuses on the rules of algebra with an emphasis on linear functions and quadratic equations. Students will learn to solve linear and quadratic equations. In addition, students in this course will evaluate, analyze, and graph functions and relations. Applications of systems of equations will be studied using both algebra and analytic geometry. Data analysis and linear regression will be explored using Desmos. Students will extend the properties of exponents to rational exponents and perform arithmetic operations with complex numbers.

**Geometry (Basic)**

1 CREDIT (3252)

*Prerequisite: Algebra I; with departmental approval*

This course consists of the principles of Euclidean geometry supplemented by logic. Areas of study will include basic geometric figures and relationships among them, properties of polygons with emphasis on triangles and quadrilaterals, properties of circles and related concepts, congruence and similarity, and applications of measure and area problems.

**Geometry (Standard)**

1 CREDIT (3253)

*Prerequisite: Algebra II or completion of Algebra I in fall semester; with departmental approval***Geometry (Accelerated)**

1 CREDIT (3255)

*Prerequisite: Algebra II or completion of Algebra I in fall semester; with departmental approval*

This course focuses on the principles of Euclidean geometry supplemented by logic. Areas of study will include basic geometric figures and relationships among them, properties of polygons with emphasis on triangles and quadrilaterals, properties of circles and related concepts, congruence and similarity, and applications of measure and area problems. The student will learn the fundamentals of right triangle trigonometry.

**Algebra II (Basic)**

1 CREDIT (3231)

*Prerequisite: Algebra I; with departmental approval*

This course focuses on the rules of algebra with an emphasis on linear and quadratic equations. The students will be introduced to styles of proving, evaluating, and simplifying

algebraic expressions. There will be emphasis on solving real world or unfamiliar problems using appropriate analysis techniques and reasonable estimation. The students will learn to generalize results from specific applications through the use of modeling. Students will extend the properties.

**Algebra II (Standard)**

1 CREDIT (3233)

*Prerequisites: Algebra I Standard; with departmental approval***Algebra II (Accelerated)**

1 CREDIT (3235)

*Prerequisite: Algebra I Accelerated; with departmental approval, new students may start their math sequence with this course if a satisfactory score has been earned on the department placement test.*

This course focuses on the rules of algebra with an emphasis on quadratic functions and families of functions. Areas of study will include manipulating functions with transformations, composition of functions, and modeling situations with functions. The students will be introduced to styles of proving, evaluating, and simplifying algebraic expressions. There will be emphasis on solving complex or unfamiliar problems.

**Trigonometry (Standard)**

1 CREDIT (3273)

*Prerequisite: Geometry or with departmental approval***Trigonometry (Accelerated)**

1 CREDIT (3275)

*Prerequisites: Algebra II and Geometry or with departmental approval*

This course allows the student to study many different areas within trigonometry. Topics will include angles and rotations, the unit circle and right triangle trigonometry, trigonometric functions, and circular functions and their graphs; trigonometric identities; and proofs of identities. Concepts will be applied in a variety of areas such as civil engineering and science. Students will make extensive use of graphing calculators. Arc length and polar coordinates are also included.

**Precalculus (Standard)**

1 CREDIT (3283)

*Prerequisite: Trigonometry or with departmental approval***Precalculus (Accelerated)**

1 CREDIT (3285)

*Prerequisite: Trigonometry or with departmental approval*

This course develops the analytic skills necessary to describe the behavior of mathematical functions. Topics include

algebraic expressions, u-substitution, higher degree polynomials, rational, logarithmic, and exponential functions, function composition, inverses of functions, transformations of functions, and polynomial and synthetic division. A review of trigonometric functions and the unit circle is also included.

In this course students will explore broad applications of mathematical ideas as they pertain to the field of business, the social sciences, computer science, and number theory. The goal of this course is to prepare students to interpret data, to construct algorithms, and to build mathematical models to analyze and solve problems. Topics include probability, data analysis, sequences and series, and logic.

**Applied Calculus (Standard)**

1 CREDIT (3280)

*Prerequisites: Trigonometry and Precalculus; with departmental approval***Applied Calculus (Accelerated)**

1 CREDIT (3286)

College credit at the accelerated level, is available through Southern New Hampshire University's dual enrollment course Calculus I: Single Variable.

*Prerequisites: Trigonometry and Precalculus; with departmental approval*

This course will serve as an introduction or survey of the fundamentals of differential and integral calculus. Students will be encouraged to study these concepts in practical tangible applications through hands on projects, classic lectures, and direct research. While each student will learn the fundamentals of differentiation and integration, this course is not intended to be an alternative to the AP Calculus course.

**Applied Statistics (Standard)**

1 CREDIT (3287)

*Prerequisite: Trigonometry; with departmental approval***Applied Statistics (Accelerated)**

1 CREDIT (3282)

College credit at the accelerated level, is available through Southern New Hampshire University's dual enrollment course Applied Statistics.

*Prerequisite: Trigonometry; with departmental approval*

This course will give students an opportunity to design and conduct surveys and experiments using statistical methods. Results of sampling and data collection will be displayed using statistical representations. Journal articles and published research will be analyzed and interpreted from a statistical perspective. The basic rules of

simple probability, the fundamental counting theorem, conditional probability, and probability distributions will also be explored.

## Advanced Placement

### AP Pre-Calculus

1 ½ CREDIT (3291/3292)

*Prerequisite: High performing students in Trigonometry Accelerated who are looking to prepare directly for AP Calculus AB or with departmental approval.*

AP Precalculus is a course in the mathematics curriculum map designed to prepare students for calculus. It is an introduction to mathematical analysis. Algebraic and trigonometric topics are explored in great depth and breadth, and topics in parametric equations, vectors, conic sections, and the polar field are introduced. This course prepares students for other higher-level mathematics and science courses. Students study each function type through their graphical, numerical, verbal, and analytical representations and their applications in a variety of contexts. Additionally, students apply their understanding of functions by constructing and validating appropriate function models for scenarios, sets of conditions, and data sets, thereby gaining a deeper understanding of the nature and behavior of each function type.

In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world.

### AP Calculus AB

1 CREDIT (3298)

*Prerequisite: Pre-Calculus (Accelerated) grade  $\geq$  85; with departmental approval; AP Calculus AB Prep is required for students who will not continue to AP Calculus BC*

This course is equivalent to the first semester of college calculus. The topics include limits, derivatives, integrals and the Fundamental Theorem of Calculus. Emphasis will be placed on conceptual understanding: reasoning with definitions and theorems, connecting concepts, implementing algebraic/computational processes, connecting multiple representations, building notational fluency, and communicating. This course follows the AP curriculum and leads directly to the Advanced Placement Calculus AB exam.

### AP Calculus AB Prep

½ CREDIT (3297)

*Prerequisite: AP Calculus AB; with departmental approval*

This course is a continuation of AP Calculus AB and will strengthen skills and knowledge in preparation for the Advanced Placement Calculus AB exam in the spring. AP Calculus Prep meets every-other day during second semester.

### AP Calculus BC

1 CREDIT (3299)

*Prerequisite: Calculus AB grade  $>$  90; with departmental approval*

This course is a continuation of Calculus AB and is equivalent to second semester college calculus. In addition to further study of techniques of differentiation and integration, topics include sequences and series, vector and polar functions, and some basic differential equations. This course follows the AP curriculum and leads directly to the Advanced Placement Calculus BC exam.

### AP Statistics

1½ CREDIT (3289/3290)

*Prerequisite: Trigonometry; with departmental approval*

This two-semester course leads directly to the taking of the Advanced Placement examination in Statistics in the spring. The topics discussed in this course include frequency, distributions and graphs, measures of central tendency, measures of variability, confidence intervals, and hypothesis tests. In the first semester, the course meets daily; in the second semester the course meets every-other day.

## Post Calculus

### Multivariable Calculus

1 CREDIT (3300)

*Prerequisite: Calculus BC; with departmental approval*

This upper-level calculus course is intended for students with a strong interest in mathematics and a solid foundation in single variable calculus. The topics of this course will include partial derivatives, gradients, constrained optimization using Lagrange multipliers, double and triple integrals with applications, as well as cylindrical and spherical coordinates, and using Jacobian matrices to change coordinate systems. Vector calculus will also be studied including line and surface integrals, divergence and curl, and the theorems of Green and Stokes. The use of computer algebra systems will be an essential part of the course.

### Linear Algebra

½ CREDIT (3301)

*Prerequisites: Multivariable Calculus or SNHU dual-enrollment math course; with departmental approval*

This course builds on the concepts of three-dimensional space developed in Multivariable Calculus and extends discussions of mathematical spaces to include arbitrary dimensions. Topics covered in the course will include systems of linear equations and how to solve them, the method of Gaussian elimination, matrices and linear mappings, determinants and their properties, eigenvectors and eigenvalues, and the diagonalization of matrices. The course will incorporate computer algebra systems and will seek to strike a balance between linear algebra's abstract structures and justifications and the rich collection of applications to science and engineering problems that the subject affords.

## SCIENCE

*3 credits required for graduation, following the sequence of Biology: Living and Chemical Systems; Physics: Systems of Matter, Motor, and Energy; and Research Methods and Environmental Science.*

In science courses, students participate in a course of study that will enable them to:

- Master the processes of scientific investigation, and to design, and safely conduct, evaluate, and communicate about such investigations.
- Acquire essential knowledge about the content of science in the fields of Physical Science, Life Science, and Earth and Space Science.
- Be scientifically literate, able to read and analyze scientific information.
- Engage in the authentic practice of science. They will know and understand relationships among science, technology, and human activity and how they affect the world, and understand that science involves a particular way of knowing, and understand common connections among scientific disciplines.
- Understand the history of science.

Basic courses emphasize practical applications to everyday life. Standard and accelerated courses are designed to prepare students for college-level science courses, including Advanced Placement courses. Accelerated courses emphasize the use of mathematical analysis and explore the topics at a more rapid pace, in a more rigorous manner. Permission to take an

accelerated course is normally predicated on maintaining a grade of at least 85 in the previous accelerated course, or at least 90 in the previous standard course.

## Core Courses

Three core science courses are required for graduation following the sequence of Integrated Science I; Integrated Science II; and Integrated Science III. Note that college preparatory biology, chemistry, and physics topics will be integrated throughout the three courses. With written departmental permission, a student may replace one of these courses with a corresponding Advanced Placement course, though it is normally recommended that students take AP courses as their second course in the subject of interest. All students should plan to complete their three core courses before the end of their junior year. Because there are certain math prerequisites for some of these core courses, students should carefully plan their math sequence as well.

### Biology: Living and Chemical Systems (Basic)

1 CREDIT (4321)

*Prerequisite: At least concurrent enrollment in Pre-Algebra or Algebra I.*

### Biology: Living and Chemical Systems (Standard)

1 CREDIT (4322)

*Prerequisite: At least concurrent enrollment in Pre-Algebra or Algebra I*

### Biology: Living and Chemical Systems (Accelerated)

1 CREDIT (4323)

*Prerequisite: At least concurrent enrollment in Algebra I*

This laboratory course investigates living organisms and their relationships with the non-living world. Topics include the anatomy and physiology of organisms, evolution, genetics, and cellular function. Students learn to explain the interactions of life by drawing on fundamental concepts in chemistry. Emphasis is placed on developing strong science inquiry skills. The accelerated level of this course is intended for those students who have a strong background and interest in mathematics and will use abstract reasoning extensively.

### Physics: Systems of Matter, Motion, and Energy. (Basic)

1 CREDIT (4328)

*Prerequisites: Biology: Living and Chemical Systems, and Algebra I.*

### Physics: Systems of Matter, Motion, and Energy. (Standard)

1 CREDIT (4329)

*Prerequisites: Biology: Living and Chemical Systems, and Algebra I.*

### Physics: Systems of Matter, Motion, and Energy. (Accelerated)

1 CREDIT (4330)

*Prerequisite: Biology: Living and Chemical Systems (Accelerated) grade 80> or Standard >90 and Algebra II (Standard) or at least concurrent enrollment in Algebra II (Accelerated).*

This laboratory course draws on the disciplines of chemistry and physics to build scientific models of the interactions between matter, motion, and energy. Topics include motion in one dimension, Newton's Laws, conservation laws, chemical equations, the periodic table, and electric circuits and electrochemistry. Emphasis is placed on developing strong science inquiry skills. The accelerated level of this course is intended for students who have a strong background and interest in mathematics and will use abstract reasoning extensively.

### Research Methods and Environmental Science (Basic)

1 CREDIT (4358)

*Prerequisites: Physics: Systems of Matter, Motion, and Energy and at least concurrent enrollment in Algebra II Standard.*

### Research Methods and Environmental Science (Standard)

1 CREDIT (4359)

*Prerequisites: Physics: Systems of Matter, Motion, and Energy and at least concurrent enrollment in Algebra II Standard.*

### Research Methods and Environmental Science (Accelerated)

1 CREDIT (4360)

*Prerequisites: Physics: Systems of Matter, Motion, and Energy Accelerated and at least concurrent enrollment in Geometry Accelerated.*

This laboratory course focuses on developing scientific questions and methods for answering them. The study of the environment as an interdependent system serves as a foundation for connecting this final core science course to prior knowledge within the traditional areas of biology, chemistry, and physics, as well as introducing students to other scientific disciplines. Topics include ecological cycles, climate, biodiversity, geology, and sustainable human use. Students will be expected to participate in field-based research and may have opportunities to contribute to ongoing local data collection efforts. The accelerated level of this course is intended for students who have a strong

background and interest in mathematics, and will use abstract reasoning extensively.

## Elective Courses

The following courses are intended for students who wish to explore particular scientific topics in more depth than the core courses. Elective courses—with the exception of Advanced Placement courses—cannot be used as a substitute for the core courses as a graduation requirement. An AP course can replace a core course in the same area of study (for example, AP Environmental Science for Integrated Science III) with written departmental permission, though normally this is not recommended.

### AP Biology

1 ½ CREDITS (4378/4379)

College credit is available through Southern New Hampshire University's dual enrollment course General Biology I and General Biology II.

*Prerequisites: Integrated Science I (Accelerated) and Integrated Science II (Accelerated) grade >85 or (Standard) grade >90; with departmental approval*

This college-level biology course investigates living organisms and their relationship with the non-living world at a level appropriate for successfully taking the Advanced Placement Biology examination. Students must take this course both semesters, with the class meeting every other day in the second semester.

### AP Chemistry

1 ½ CREDITS (4388/4389)

*Prerequisites: Integrated Science I (Accelerated) and Integrated Science II (Accelerated) grade >85 or (Standard) grade >90; with departmental approval*

This college-level chemistry course involves students in the study of matter and its changes at a level appropriate for successfully taking the AP Chemistry examination. Topics include the structure of matter, chemical bonding and reactions, kinetics, thermodynamics, and chemical equilibrium. Students must take this course both semesters, with the class meeting every other day in the second semester.

### AP Physics 1 (4348)

1 CREDIT

*Prerequisites: Physics: Systems of Matter, Motion, and Energy Accelerated, grade 85> or standard grade 90> with departmental approval and Trigonometry. Students make take AP Physics 1 as a first Physics course with department approval.*

This college-level, trigonometry-based physics course builds on the core physics courses at a level appropriate for successfully take the AP Physics 1 exam. It is equivalent to the first of college physics taken by students majoring in the life sciences and pre-

medicine. Topics studied include kinematics, Newtonian dynamics for linear and rotational systems, oscillations, and fluids. Significant laboratory practical work is included. Course meets in the spring semester only.

### **AP Physics C: Mechanics (4399)**

#### **AP Physics C: Electricity and Magnetism (4397)**

2 CREDITS

College credit is available for AP Physics C: Electricity and Magnetism through Southern New Hampshire University's dual enrollment course Physics I with Lab.

*Prerequisites: Integrated Science II (Accelerated) grade >85 or (Standard) grade >90 and at least concurrent enrollment in Applied Calculus (Accelerated) or AP Calculus; with departmental approval*  
Students may take this sequence as a first physics course with department approval.

These college level, calculus-based physics courses build on the core physics at a level appropriate for successfully taking the AP Physics C: Mechanics and AP Physics C: Electricity and Magnetism exams. They are equivalent to the first year of college physics taken by students majoring in physics and the engineering disciplines. Topics include Newtonian mechanics, rotational dynamics, oscillations, electrostatics, electromagnetism, and circuits. Significant laboratory practical work is included. Students must take both semesters of the course.

#### **AP Environmental Science**

1 ½ CREDITS (4367/4369)

*Prerequisites: Integrated Science III (Accelerated) grade >85 or (Standard) grade >90 and Algebra II (Accelerated)*

*This course may be taken instead of Integrated Science III with departmental recommendation.*

AP Environmental Science is an interdisciplinary, rigorous college-level science course that provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students must take this course both semesters, with the class meeting every other day in the second semester.

#### **Chemistry (Accelerated)**

1 CREDIT (4335)

College credit is available through Southern New Hampshire University's dual enrollment course Fundamentals of Chemistry with Lab.

*Prerequisites: Integrated Science I (Accelerated) and Integrated Science II grade >85 or (Standard) grade >90 and at least concurrent*

*enrollment in Algebra II (Accelerated); with departmental approval*

This course is aimed at students who want more lab-based chemistry after Integrated Science II who cannot or do not want to take AP Chemistry. This laboratory course involves students in the study of matter and its changes. Topics include the relationships between matter and energy, atomic structure, chemical bonding and reaction types, stoichiometry, the gas laws, solutions, and chemical equilibrium.

#### **Anatomy and Physiology (Standard)**

1 CREDIT (4373)

*Prerequisites: Integrated Science I (Accelerated) and Integrated Science II (Standard)*

#### **Anatomy and Physiology (Accelerated)**

1 CREDIT (4375)

College credit is available through Southern New Hampshire University's dual enrollment course Introduction to Anatomy and Physiology with Lab.

*Prerequisites: Integrated Science I (Accelerated) and Integrated Science II (Accelerated)*

Students interested in studying human biology in greater depth should consider this course. It is appropriate for students considering advanced study in fields such as medicine, medical technology, dental technology, and nursing, exercise sciences, and physical therapy.

#### **Forensics (Standard)**

1 CREDIT (4930)

*Prerequisite: Integrated Science I (Standard); with departmental approval*

#### **Forensics (Accelerated)**

1 CREDIT (4935)

*Prerequisite: Integrated Science I (Standard); with departmental approval*

This introductory course will expose students to "real life" applications of the life and physical sciences to criminal investigation. Students will use techniques of biological and chemical tools to analyze evidence found at crime scenes, including DNA, trace evidence, toxicology, and decomposition. Students will practice the skills of evidence collection and classification, deductive reasoning, and arguing from evidence.

#### **Wildlife Biology (Accelerated)**

1 CREDIT (4950)

*Prerequisite: At least concurrent enrollment in Integrated Science III (Accelerated or Standard)*

Students in the Wildlife Biology course will engage in an in-depth and hands-on exploration of animal-habitat relationships, illustrated through basic field zoology and

natural history, evolutionary biology, and established natural resource management techniques. The course will examine the dynamics of various habitats in New England, North America, and elsewhere through field visits and use of primary literature. Topics explored include plant, tree and animal identification, principles of animal behavior, and habitat relationships, especially in wild and forested lands. Students will also discuss policy issues related to conservation and techniques to protect endangered species and threatened natural communities. Students will have multiple opportunities to interact with professionals who work to utilize and protect such resources and gain insight into careers and continuing study in this field.

#### **Sustainability and Global Citizenship (Accelerated)**

1 CREDIT (4951)

This course is designed for students in grades 9-12 who have a specific interest in sustainability, global issues, and social justice. It will primarily appeal to sophomores, juniors, and seniors who are looking to deepen their understanding of these topics and are eager to engage in active citizenship. Freshmen who have a strong interest in sustainability may also elect to take the course, providing flexibility for students across grade levels to explore their passions.

#### **Independent Science Research (Accelerated)**

½ CREDIT (4960)

*Pre/Corequisites: Integrated Science III (ACC) or (ST) and Department Chair Approval*

Independent Science Research is available to juniors who would like to develop advanced skills in laboratory techniques. Students will learn equipment, processes, and methods for conducting experiments in the biological, chemical, and geophysical sciences, including but not limited to: sterile lab procedures, maintenance of organisms, chemical glass work, thermal manipulation, and electromagnetic sensing. Students will use their own authentic measurements to practice data processing and visualization and to further develop their experimental design and communication skills. This course is available to a limited number of students and requires department approval as well as evidence of commitment to rigorous scientific research. Students following up on summer research experiences, preparing for science fair submissions, or intending to pursue a science research-based capstone in their senior year are encouraged to enroll.

## Environmental Studies Field Semester

1 SCIENCE AND 1 ELECTIVE CREDIT (4998)

College credit is available through the Community College of Vermont dual enrollment for Intro to Environmental Science.

*Prerequisites: Two core science courses and Geometry. Offered Fall Semester only. Students enrolling at the AP or Accelerated level can earn college credit through the Community College of Vermont. Students enrolled at the AP level will continue a one block course in the second semester to complete AP Environmental Science. Students enrolling at all levels will complete their third core science requirement as part of the experience and will earn an additional elective credit for Natural and Cultural History of Vermont.*

Field Semester is an opportunity to study science, history, and culture out of doors. The course consists of two courses: Introduction to Environmental Science and The Natural and Cultural History of Vermont, taught by faculty from both the natural sciences and the humanities. Two blocks every day, students will receive complementary instruction across both courses. Additionally, students will witness course concepts in practice with an extensive series of field trips geared toward getting students outside and into the local community. Topics covered by the course include: Vermont's geology, indigenous history and early settlement; local agriculture, its history and associated environmental impacts; recreation and tourism; and Vermont's forest health and economy.

## Engineering Design and Development Program

The Engineering Design and Development Program is an elective, multi-faceted system of guidance, coursework, work experience, mentoring, and training that provides students with a pre-university experience in engineering and design. The Academy's program is focused on providing a solid foundation in the design process, spatial reasoning, and the connections between theory and application in order to provide students with a strong basis for pursuing advanced study. The Academy is committed to increasing access to the engineering disciplines, particularly for those students traditionally under-represented in the STeM disciplines.

### Introduction to Robotics (Standard)

1 CREDIT (4849)

*Open to Freshmen and Sophomores*

### Introduction to Robotics (Accelerated)

1 CREDIT (4848)

*Open to Freshmen and Sophomores*

Introduction to Robotics gives students a cross-disciplinary introduction to robotics, which will involve them in developing a wide variety of scientific research, design engineering, programming, mathematical, presentation, and teamwork skills. As the students work in teams on weekly projects, they will develop the course's core skills to solve a variety of challenges. Students will use Lego and VEX robotics kits to design, fabricate, and program robots that meet project requirements. The accelerated level of this course is intended for those students who have a strong background and interest in mathematics, and will use algebraic reasoning extensively.

### Introduction to Engineering Design and Development (Accelerated)

1 CREDIT (4850)

*Prerequisite: At least concurrent enrollment in Algebra II*

In this projects-based course, students use an iterative design cycle to explore a variety of engineering problems. The first half of the course is focused on developing the tools of design: understanding usability, identifying needs and analyzing solutions, working collaboratively, and communicating ideas with sketches and industry-standard modeling software (CAD). During the second half of the course, students pursue a series of independent and team projects that expose them to several different types of engineering.

### Digital Electronics (Accelerated)

1 CREDIT (4851)

*Prerequisite: Algebra II (Accelerated)*

This course in applied logic encompasses the application of electronic circuits and devices. Students use computer simulation software to design and test digital circuitry prior to the actual construction of circuits and devices. Programming and use of microcontrollers will be included, making this course appropriate for students who wish to expand their understanding of robotics. Offered in alternate years from Game Design.

### Civil Engineering and Architecture (Accelerated)

1 CREDIT (4852)

*Prerequisites: At least concurrent enrollment in Integrated Science III*

This overview of the fields of civil engineering and architecture emphasizes the inter-relationship and mutual dependence of both fields. Students use state-of-the-art software to solve real world problems and apply knowledge to hands-on projects and activities. By developing and implementing plans for a playground, park, or vacation home for example, students experience first hand the job responsibilities of architects and civil engineers.

### Biotechnical Engineering (Accelerated)

1 CREDIT (4854)

*Prerequisites: Biology and Chemistry or Integrated Science II (Accelerated) grade >85 or (Standard) grade >90 and Algebra II (Accelerated)*

The major focus of the Biotechnical Engineering course is to expose students to the diverse fields of biotechnology including biomedical engineering, biomolecular genetics, bioprocess engineering, and agricultural and environmental engineering. Lessons engage students in engineering-design problems that can be accomplished in a high-school setting related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bioethics.

### Game Design (Accelerated)

1 CREDIT (4855)

*Prerequisite: Geometry*

Students will work through the process of game design from developing a concept to testing a product. The course will begin by teaching principles of design via table top games, and then progress to the use of industry-standard game design software. Throughout the course, students will complete a variety of projects that lead to a final, original video game design. Outside experts from industry and academia will give their perspectives on careers in game design, and serve as evaluators for student projects. No prior programming experience is required. Offered in alternate years from Digital Electronics.

## Engineering Design and Development Capstone (Accelerated)

1 CREDIT (4853)

*Prerequisite: Introduction to Engineering Design and Development and Trigonometry*  
This course is intended for Seniors wishing to complete an engineering design Capstone.

In this course students will expand their understanding of engineering design and combine that with principles of engineering that will enable them to develop, brainstorm, and fabricate a product that is functional, aesthetically pleasing, and meets weight, strength of materials, and other applicable product specifications. The students will investigate possibilities, research current patents and regulations, construct a working prototype, test the prototype in real life situations (or simulation), document their designs, and present and defend the design to a panel of experts. This course will satisfy the Senior Capstone requirement.

## Computer Science

The courses in Computer Science focus on the idea that students should not simply be consumers of technology, but that students should be able to create technology. Although programming is a major component of computer science, computer science study also includes computational thinking, logic, problem-solving, working with algorithms, collaboration, and creativity. Our course sequence begins with introductory courses that work toward demystifying the inner workings of computers and the Internet and the applications that are integral to the daily lives of our students. Advanced coursework could include programming in multiple languages and for multiple platforms, as well as introductions to emerging technologies.

Understanding computing technology is critical to contemporary citizenship and to many careers, and all students are strongly encouraged to take a computer science class before graduation.

### Introduction to Computer Science (Standard)

1 CREDIT (3698)

*Prerequisite: With departmental approval.*

This course is designed for students who have little to no experience in programming computers. Students will learn the basics of algorithmic thinking, and design programs to solve simple problems. A number of different programming environments will be used including both highly-structured languages and high-level programming languages. Students will learn the basics

of variables, loops, conditional statements and standard data structures such as arrays, lists, and dictionaries. Students will gain familiarity with how computers work and their architecture. Students will use their computers to create and manipulate data sets and to automate tasks.

### Programming JAVA (Accelerated)

1 CREDIT (3697)

*Prerequisite: Geometry; with departmental approval*

This course is an introduction to the structures and methods of higher-level computer programming languages. Problem solving using modular design will be an integral part of the course. Students will become familiar with conditional logic, repetition, and program input and output. Commonly used algorithms will be studied. Structured data types will include multi-dimensional arrays. Object-oriented programming will also be introduced.

### AP Computer Science Principles

1 CREDIT (3700)

*Prerequisites: Introduction to Computer Science or Programming JAVA; with departmental approval*

This course builds on the skills and understanding from the Introduction to Computer Science course. Students follow the AP curriculum to explore the themes of creativity, abstraction, data and information, algorithms, programming, the Internet, and global impact through problem solving and real-world applications. The AP Computer Science Principles Assessment consists of two parts: a through-course assessment and the end-of-course AP Exam.

### AP Computer Science A

1 CREDIT (3699)

*Prerequisites: Programming in JAVA (Accelerated) grade  $\geq$  85; with departmental approval; AP Computer Science Principles*

This course reinforces concepts in JAVA Programming and leads directly to the Advanced Placement Computer Science A examination. Students follow the AP curriculum to become familiar with application design, classes and hierarchy, and complex algorithms. Additional topics include software history as well as current trends in software development. This course is appropriate for students with a strong interest in mathematics and engineering.

### Advanced Topics in Computer Science — Cybersecurity (Accelerated)

$\frac{1}{2}$  CREDIT (3701)

*Prerequisite: AP Computer Science*

This course is intended for advanced

students who have successfully completed AP Computer Science. This course will introduce students to the fundamental concepts of cybersecurity through hands-on problem-solving and challenges offered by a national cybersecurity competition. Among other topics, students will explore cryptography, web exploitation, cyber-forensics, binary exploitation, and more. Students will gain exposure to tools and techniques used in cybersecurity, ultimately gaining a foundational understanding of cybersecurity concepts, practical skills in solving cybersecurity challenges, and a solid basis for further exploration or pursuit of cybersecurity-related fields in higher education or career pathways. Meets every other day.

## LANGUAGES

Communication is necessary to establish social ties, to knit people together in relationships, to enhance cooperation, and to develop a global community. Communicative approaches for teaching languages are emphasized. The goal is to provide language learners the skills to use the target language outside of the classroom in authentic settings. Language learning is a life-long process, and our goal is to provide a foundation upon which students can build in college and elsewhere.

## French

### French I (Standard)

1 CREDIT (5433)

*Prerequisite: Students who score below the 40th percentile on standardized reading comprehension tests should work on their basic English skills before beginning the study of French.*

### French I (Accelerated)

1 CREDIT (5435)

College credit is available through Southern New Hampshire University's dual enrollment course Beginning French I.

*Prerequisite: 80th percentile or above on standardized reading comprehension tests or outstanding performance in the previous academic year*

This beginning French course is offered at both the Standard and Accelerated levels. No prior experience is needed to enroll at either level. Through a variety of learning tasks students recognize, react to, and use the basic structures, grammar, and vocabulary of the French language. Students also begin to develop an awareness of the cultures of the Francophone world. Students are



encouraged to be creative with the language, independently expand their vocabulary, and take an active role in mastering language skills. The course focuses on all four strands of language learning: reading, writing, speaking, and listening with an emphasis on speaking and listening.

### French II (Standard)

1 CREDIT (5437)

*Prerequisite: One year of high school French*

### French II (Accelerated)

1 CREDIT (5439)

College credit is available through Southern New Hampshire University's dual enrollment course Beginning French II. Prerequisite: SNHU Beginning French I.

*Prerequisite: French I (Accelerated) or with departmental approval*

This course is a continuation of the work of French I. Students continue to work toward a proficiency in French which allows them to: ask and answer questions in areas of immediate need and on very familiar topics; pronounce the language well enough to be understood; read and understand information in a simple paragraph; and write short paragraphs on familiar topics. Students continue to explore the Francophone world, with a focus on the more local areas of French influence.

### French III (Standard)

1 CREDIT (5442)

*Prerequisite: French II (Standard) or departmental approval*

This course is designed for students interested in a third year of language study but who are not ready for an accelerated French course. Students work to increase their proficiency in all four strands of language learning: reading, writing, speaking, and listening. Tools used include short stories, music, movies, as well as a number of different applications online.

### French III (Accelerated)

1 CREDIT (5445)

College credit is available through Southern New Hampshire University's dual enrollment course Intermediate French III. Prerequisite: SNHU Beginning French II.

*Prerequisite: French II (Accelerated) or with departmental approval*

The aim of this course is to continue the student's linguistic development. Students at this level work toward proficiency in French that allows them to engage in conversation about familiar topics; understand the

essential points of the spoken language; read and comprehend such materials as journal articles, short stories, and *Le Petit Prince*; and write summaries, descriptions, and social correspondence. They also continue to develop their cultural awareness and their understanding of the Francophone world.

### French IV (Accelerated)

1 CREDIT (5447)

College credit is available through Southern New Hampshire University's dual enrollment course Intermediate French IV. Prerequisite: SNHU Intermediate French III.

*Prerequisite: French III (Accelerated) or with departmental approval*

This class is conducted entirely in French. Students review grammar structures contextually through their study of contemporary as well as classic works of French literature, journals, films, and music. Class activities include participating actively in discussion, often expressing a reaction or a point of view on a theme, as well as composition, usually done in class. This class is designed to help students prepare for AP French, although they are not required to move on to the course. Many of the activities and topics covered mirror activities and themes from the AP French curriculum.

### France and the Arts (Accelerated)

1 CREDIT (5450)

*Prerequisite: Successful completion of AP French or department recommendation.*

This course is designed for students who have completed our high level French courses and wish to continue working on their language skills. Units studied will have components from four key strands of language learning: reading, writing, speaking, and listening. Students will do research, prepare presentations, and welcome guest lecturers. Students will use available resources and media as they journey through the history of France through its arts. The course will be taught completely in French.

### AP French Language and Culture

1 CREDIT (5449)

*Prerequisite: French IV (Accelerated) with a grade  $\geq 85$  or with departmental approval*

This course, conducted entirely in French, includes individual speaking practice and analysis of more advanced grammatical concepts and structures. Students at this level work toward a proficiency in French that will prepare them for the AP Language and Culture exam. Students at this level are able to: support opinions, explain in detail, and hypothesize; sustain understanding

over longer stretches of time; read and comprehend more abstract and linguistically complex texts; and write about a variety of topics with significant precision and detail. Discussions, presentations, projects, readings, and research are vehicles through which students explore the literature, history, and culture of the Francophone world.

## Latin

Knowledge of Latin gives students the opportunity to understand the roots of English, the Romance languages, and the influence of classical Roman culture on today's world.

### Latin I (Accelerated)

1 CREDIT (5471)

*Prerequisite: 80th percentile or above on standardized reading comprehension tests or an outstanding performance in the previous academic year*

Latin I introduces students to the basic elements of Latin grammar through reading and writing. Vocabulary is presented with the aim of showing the direct and indirect indebtedness of English to Latin and the reliance of the Romance languages upon Latin.

### Latin II (Accelerated)

1 CREDIT (5473)

*Prerequisite: Latin I or with departmental approval*

This course involves both review and continuation of the study of Latin grammar, with emphasis on more complex expression in both reading and writing. The goal of the course is for students to prepare for reading Latin authors through intermediate readings that include topics such as mythology and the history of Rome.

### Latin Prose (Accelerated)

1 CREDIT (5475)

*Prerequisite: Successful completion of Latin II at St. Johnsbury Academy or upon departmental approval.*

This course involves intensive study of a key Latin Prose author, Caesar. This course meets at the same time as Latin Poetry and can involve some collaborative comparative literature projects with all students, both Prose and Poetry.

**Latin Poetry (Accelerated)****1 CREDIT (5477)**

*Prerequisite: Successful completion of Latin II at St. Johnsbury Academy or upon departmental approval.*

This course continues with an intensive study of a key Latin Poet, Vergil. This course meets at the same time as Latin Prose and can involve some collaborative comparative literature projects with all students, both Prose and Poetry.

**AP Latin****1 CREDIT (5479)**

*Prerequisites: Highly successful completion of Latin II at St. Johnsbury Academy or upon departmental approval.*

Students in this course will attend the combined Prose & Poetry class but are expected to complete the reading lists for both classes, as well as additional readings to meet College Board expectations, which is a rigorous requirement. Exceptional students of Latin may enroll in AP Latin immediately upon meeting the prerequisite; however, students may choose to enroll in AP Latin after completing one or both literature courses first. The AP Latin course is designed to help students achieve success on the AP Latin exam. Therefore, it centers on the prose of Caesar (Commentarii De Bello Gallico) and the poetry of Vergil (The Aeneid), while developing the students' abilities to translate Latin prose and poetry in English literally; understand the passage read within their historical, cultural, and literary contexts; engage in effective analysis of passages, including elements of language, style, and purpose; better read works of Latin aloud; and learn the dactylic hexameter of Vergil's poetry.

**Spanish****Spanish I (Standard)****1 CREDIT (5413)**

*Prerequisite: Students who score below the 40th percentile on standardized reading comprehension tests should work on their basic English skills before beginning the study of Spanish.*

**Spanish I (Accelerated)****1 CREDIT (5415)**

**College credit may be available. Check with the Language Department Chair for options.**

*Prerequisite: 80th percentile or above on standardized reading comprehension tests or outstanding performance in the previous academic year*

This beginning Spanish course is offered at both the Standard and Accelerated levels. In this Spanish course students build a foundation of vocabulary and language structures to be able to communicate in

simple sentences about basic topics in the present tense. Understanding the language in context is emphasized through a focus on reading and listening to stories. The teacher and students use Spanish for the majority of class time as students participate in a variety of learning tasks to build their skills in the language and develop an awareness of the Spanish-speaking world.

**Spanish II (Standard)****1 CREDIT (5417)**

*Prerequisite: One year of high school Spanish*

**Spanish II (Accelerated)****1 CREDIT (5419)**

**College credit may be available. Check with the Language Department Chair for options.**

*Prerequisite: Successful completion of Spanish I (Accelerated) or with department approval*

This course is a continuation of the work of Spanish I. Students work toward a proficiency level that allows them to ask and answer questions about familiar topics, read and understand information in a simple article or story, and write a short paragraph about a familiar topic, in both the present and past tenses. Stories, short books, music, and videos are all used to practice the language in context and build students' understanding of Hispanic countries and culture.

**Spanish III (Standard)****1 CREDIT (5422)**

*Prerequisite: Spanish II (Standard) or with department approval*

Students in their third semester of Spanish will work to improve their proficiency in using basic structures, grammar, and vocabulary through reading a short novel, writing paragraphs, and participating in conversations and discussions in Spanish. Videos and articles also provide practice with the language as well as exploration of Hispanic culture.

**Spanish III (Accelerated)****1 CREDIT (5425)**

**College credit may be available. Check with the Language Department Chair for options.**

*Prerequisite: Spanish II (Accelerated) or Spanish III (Standard) or with department approval*

Students at this level advance to a more complex use of the language. They work toward proficiency in Spanish that allows them to: engage in conversation about familiar topics; understand the essential points of intermediate-level spoken language; read and comprehend such materials as newspaper articles and short stories; and write summaries, descriptions, and social correspondence using a variety of tenses. Students continue to develop their cultural awareness and understanding of the Spanish-speaking world.

**Spanish IV (Standard)****1 CREDIT (5428)**

*Prerequisite: Spanish III (Standard)*

This course is designed for students who are not ready for an accelerated course, but want to continue their study of Spanish. Students will read articles from around the Spanish-speaking world and engage in debates and discussions. Videos with a variety of voices from different regions provide more language practice and culture. Students should be committed to speaking only Spanish in the classroom.

**Spanish IV (Accelerated)****1 CREDIT (5427)**

**College credit may be available. Check with the Language Department chair for options.**

*Prerequisite: Spanish III (Accelerated) or with department approval*

This advanced course, conducted entirely in Spanish, includes a review of basic grammar and structures, as well as intensive work on more complex grammatical concepts. Students at this level work toward proficiency in Spanish that allows them to: participate in a wide variety of conversations, including unfamiliar situations; sustain understanding over longer stretches of time; read and comprehend longer prose; and describe and narrate in paragraphs. Readings, podcasts, videos, discussions, and presentations are vehicles by which students explore the literature, history, and culture of the Spanish-speaking world.

**AP Spanish Language and Culture****1 CREDIT (5430)**

*Prerequisite: Spanish IV (Accelerated) or with department approval*

This course, conducted entirely in Spanish, includes individual speaking practice and analysis of more advanced grammatical concepts and structures. Students at this level work toward a proficiency in Spanish that will prepare them for the AP Spanish Language and Culture exam. Students at this level are able to: support opinions, explain in detail and hypothesize; sustain understanding over longer stretches of time; read and comprehend more abstract and linguistically complex texts; and write about a variety of topics with significant precision and detail. Exploration of the literature, history, and culture of Spanish-speaking countries continues through engagement with readings, podcasts, videos, discussions, and presentations.

**Spanish V (Accelerated)**

1 CREDIT (5429)

*Prerequisite: AP Spanish or with department approval*

This course is designed as an option for students who have successfully completed the AP Spanish course and would like to continue to develop their language skills and understanding of the many facets of Hispanic culture. Topics of study will vary from year to year. Units may be designed to study the literary masters of the Hispanic world, Hispanic artists and their influence, or the diaspora of the Spanish peoples from Spain to the Americas.

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## ENGLISH AS A SECOND LANGUAGE

ESL level placement is determined by the department test score or equivalent IBT TOEFL score/Duolingo score, and departmental approval.

**Beginning English as a Second Language (Standard)**

1 CREDIT (5501)

This course is for students who have studied basic English but are not proficient enough to receive most of their academic instruction in English. Using conversations, reading selections, grammar exercises, and writing opportunities which provide practice in grammatical structures, this course enables students to develop their listening, speaking, reading, and writing skills. Vocabulary and oral expression are emphasized, and students receive personal attention in this small class.

**Developing English as a Second Language (Standard)**

1 CREDIT (5502)

This course is for those intermediate level students who understand and use English but need considerable growth in pronunciation and fluency, grammar, reading comprehension, and writing. This is a communication-based course which requires the students to become more fluent in both speaking and writing. It unifies both receptive and productive skills with meaningful communication and is grounded in the presentation and practice of English grammar through meaningful content.

**Expanding English as a Second Language (Standard)**

1 CREDIT (5503)

For more advanced language students who may be able to get by in English but who still need to think and work more easily in English in order to succeed in their academic courses, this course provides practice in more complex grammatical structures. The students work to develop confidence and skills in expressing their ideas and feelings correctly, both orally and in writing.

**Bridging English as a Second Language (Standard)**

1 CREDIT (5504)

This course is for non-native speakers who are able to function well in high school classes where all instruction is in English, but who must still refine and practice their English pronunciation, fluency, grammar, idioms, and writing. This course is designed to more fully prepare students for the threshold college admissions standard of 80 or above IBT TOEFL. Admission and release from this course depend not only upon language proficiency but also upon academic ability and goals and will be determined by the department chair.

**ESL World Civilizations, Pre-1500 (Standard)**

1 CREDIT (5515)

This social studies course is intended to provide English language learners a curriculum based on the history of early world civilizations while also developing English language skills and vocabulary. This course satisfies a required social studies credit.

**ESL United States History**

1 CREDIT (5517)

English language learners develop an understanding of the culture and history of the United States by critically examining major historical themes and political philosophy. This course satisfies a required social studies credit.

**United States History (International)**

1 CREDIT (5518)

International students will develop an understanding of the culture and history of the United States by critically examining major historical themes with emphasis on improving English in class discussion and writing. This course satisfies a required social studies credit.

**ESL Contemporary Issues**

1 CREDIT (5519)

*Departmental approval required*

This course introduces upper-level ESL students to major contemporary issues facing the U.S. and the world as it helps students develop fundamental research, reading, writing, and public speaking skills. This course utilizes a range of materials and provides historical context and a variety of perspectives on each issue. This course satisfies a required social studies credit.

**ESL Capstone**

1 CREDIT (7703)

*Departmental approval required*

This course satisfies the same requirements as the regular Senior Capstone course (7701), but in a way that reflects the growing English language skills of the participants.

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## HEALTH AND WELLNESS

*2 physical education credits are required for graduation.*

*1 health credit is required for graduation.*

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## Physical Education

Normally students start to satisfy the physical education requirement by taking Introduction to Physical Education in their freshman year, which is 1 credit. In certain situations, students may satisfy this requirement by taking a dance course. However, these students must then take at least one, 1-credit course from the Physical Education offerings to satisfy the Physical Education requirement.

For those students who take Introduction to Physical Education as Freshmen, another, 1-credit course from the Physical Education offerings is required for graduation, or by doing one of the alternatives listed:

- Taking one semester of Introduction to Dance, Advanced Dance, or Exercise Science I and II.
- Playing two different Junior Varsity or Varsity sports.
- Playing the same sport for two years at the Junior Varsity or Varsity level.

## Introduction to Physical Education

1 CREDIT (7551)

*Open to Freshmen; meets every day*

The objective of this course is to educate students in the areas of fitness and health, to encourage them to engage in active lifestyles, and to improve their physical fitness. Areas of focus will include body weight exercises, weight training, agility/speed training, swimming, static/dynamic stretches, yoga, utilization of multi-apparatus equipment, which includes: weight training, kettle bells, bands, plyometric stations, exercise balls, and jump ropes.

Occasionally, a specific sport such as racquet games and basketball will be integrated, with the expectation that students will learn the motor skills and rules required to compete respectfully and effectively.

To this end students will foster a positive attitude and understanding of fitness in general, with the overall recognition that a life regulated by obtainable fitness goals can benefit one for a lifetime.

## Exercise Science I (Standard)

1 CREDIT (7552)

This elective class will integrate nutrition and personal fitness as a cohesive unit in the development and maintenance of a healthy lifestyle. Students will gain an understanding of and be able to recognize the need for balance in one's life, emphasizing the importance of good nutrition and physical fitness. The class will consist of two days of classroom instruction and three days of physical training. Completion of this course fulfills one credit of Physical Education but may not be substituted for Introduction to Physical Education.

## Exercise Science II (Accelerated)

1 CREDIT (7553)

*Prerequisite: Exercise Science I grade >85 or with departmental approval*

The purpose of this course is to cultivate an extensive knowledge of physical fitness training and develop the ability to implement a plan into a personal fitness program to foster intrinsic motivation towards a healthy and active lifestyle now and in the future.

The class will utilize a broad spectrum of activities in order to allow the student to assemble a comprehensive plan to improve functional fitness and athleticism. The activities in the class will include body weight activities, and aerobic and anaerobic conditioning activities to strengthen the core, improve balance, coordination, and flexibility.

## Sports Medicine I (Standard)

1 CREDIT (7561)

**DOES NOT COUNT TOWARD PE CREDIT REQUIREMENT**

This course will consist of basic anatomy, introduction to sports related injuries, and basic treatment protocol. Students will also complete hands-on labs involving taping and wrapping of various injuries.

## Sports Medicine II (Accelerated)

1 CREDIT (7563)

**DOES NOT COUNT TOWARD PE CREDIT REQUIREMENT**

*Prerequisite: Sports Medicine I with  $\geq 85$  or with departmental approval*

Students will gain certification in American Red Cross First Aid, adult CPR, and child/infant CPR. This course will review basic anatomy but focus on advanced rehabilitation programs and taping as well as hands-on diagnostic techniques.

## Competitive Games (Standard)

$\frac{1}{2}$  CREDIT (7550)

**DOES NOT COUNT TOWARD PE CREDIT REQUIREMENT**

*Open to Sophomores, Juniors, and Seniors*

This elective class will help students to attain the knowledgeable understanding of recreational games and activities through instruction and game play. The students will be able to participate in various games for fun and enjoyment and be able to carry them over into later life. The course focuses on examining strategies, proper sportsmanship, refereeing, rules and skills. The games that are focused on are games that are played in Winter Carnival and Spring Day, floor hockey, volleyball, indoor soccer and also games that are considered to be carry-over games. A carry-over game is a game that can be played after a student finishes high school or college. The games and activities that are covered in the carry over units would be pickle ball and other racquet games like badminton, tennis, and ping pong, Ultimate Frisbee, basketball, volleyball, etc. Depending on the semester, there is also a unit on the climbing wall and belaying to help to establish trust, cooperation, and strong relationships within the class setting.

## Health

Along with St. Johnsbury Academy's dedication to academics, we strongly believe in the importance of one's physical, social, mental, and emotional well-being. Students gain the knowledge and decision-making skills that they will use throughout their years at SJA.

The programs we offer provide our students with a base from which to build a lifetime of healthy living.

## Health (Standard)

1 CREDIT (7591)

*Open to Freshmen*

This course readies freshmen academically and socially for the demands of life during high school and beyond. The course orients students to Academy traditions and prepares students for learning in the 21st century. Students are exposed to systems that develop independent learners and communicators.

The course has two components which revolve around personal choices and social obligations by including topics such as personal development, productive thinking, Choice Theory, communication skills, interpersonal awareness, substance education and stress control, mature decision-making regarding transitioning from childhood to adulthood, and community health issues. Also presented are learning styles and success strategies for today's classroom. Students will gain adult CPR certification.

## Life Choices (Accelerated)

1 CREDIT (7594)

*Open to Juniors or Seniors*

In this Junior/Senior elective course, students will have the opportunity to explore common health and wellness topics as they prepare to transition to college, military or employment. Students will use knowledge gained to help them analyze and continue to improve their physical, social and emotional health. Emotional Intelligence and the importance of Positive Psychology in reaching one's full potential and maneuvering through life's challenges will be central themes in this course. Strengthening resilience, dealing with common social and emotional issues such as depression, anxiety, and substance use disorders will help empower students to lead a healthy and successful life. The course will also investigate effective communication, healthy relationships, goal setting, decision-making, understanding of sexual health/sexuality, nutritious meal planning, fitness, and basic financial management. This course fulfills the health graduation requirement.

## Health (Standard)

1 CREDIT (7593)

This course is an online class designed to cover the health material that is in the 9th Grade Health class. The class is structured around the Health Triangle, focusing on mental, physical, and social

health. The course has two components which revolve around personal choices and social obligations by including topics such as personal development, productive thinking, Choice Theory, communication skills, interpersonal awareness, substance education, stress management, mature decision-making regarding transitioning from childhood to adulthood, and community health issues. It is vital that the student has good time management skills as they will need to complete the course in addition to their regular course load. To receive a credit, the final test must be passed. This course fulfills the health requirement for graduation.

## FINE ARTS

The mission of the Fine Arts Department is to offer instruction, resources, and a culture that inspires students to develop artistic awareness and proficiency by providing a professional environment and a comprehensive curriculum in the visual and performing arts. We believe that the exploratory creative process encourages cognitive growth and builds problem solving skills that promote resilience and flexible thinking.

## Performing Arts

### Music

The core offerings of the music program at St. Johnsbury Academy are the large ensemble Band and Chorus. In addition, several small ensemble groups, both curricular and extracurricular, are available.

#### Band (Standard)

1 CREDIT/ALL YEAR (8801)

*Prerequisite: A year's experience in band or private instruction, or with departmental approval. Band may be taken multiple times for credit.*

Students will rehearse and perform music ranging widely in style and difficulty, with an emphasis on broadening their knowledge of repertoire and developing technical ability. The band performs at home football games and pep rallies, marches in selected parades, and performs in four concerts throughout the year. Students are expected to reserve all performance dates. Students who have achieved a higher level of proficiency are encouraged to audition for a number of festivals. Smaller ensembles of students with similar ability will be allowed to pursue more challenging literature. Meets every other day all year.

#### Chorus (Standard)

1 CREDIT/ALL YEAR (8814)

*Chorus may be taken multiple times for credit.*

Chorus provides students with an introduction to many styles of choral literature. Students will work to develop their reading and singing skills in an ensemble environment. The Chorus will perform four concerts per year and participate in other special performances in the community. Students are expected to reserve these times for performances. Meets every other day all year.

#### Jazz Band (Accelerated)

½ CREDIT (8803)

*By audition only*

*Jazz Band may be taken multiple times for credit.*

Students in the Jazz Band will explore the classical and modern jazz repertoire in this select ensemble. Development of musicianship and improvisational skills will be encouraged. The Jazz Band will perform many concerts throughout the year. It is expected that those in the Jazz Band will keep current in the concert band's repertoire and participate in the large ensemble as needed. The Jazz Band participates in many concerts throughout the year - students are expected to reserve these times for performances. Meets every other day all year.

#### String Ensemble (Accelerated)

1 CREDIT (8806)

*By audition only*

*String ensemble may be taken multiple times for credit.*

The String Ensemble will provide students with the opportunity to develop their skills in playing violin-family instruments as they prepare music in a small ensemble environment. Students will be involved in extracurricular performances and rehearsals.

#### Guitar I (Standard)

1 CREDIT (8805)

In this introductory course students will learn or refine skills such as chord identification and facility, strumming patterns, and finger-picking styles. The class emphasis is on developing the students' reading of melodic and rhythmic notation to a level that would prepare them for Guitar II.

#### Guitar II (Accelerated)

1 CREDIT (8807)

*Prerequisite: Guitar I*

Students will strengthen their skills in playing guitar-family instruments as they prepare music in a small ensemble environment. Students will be involved in extracurricular performances and rehearsals.

## Music Appreciation and Theory (Standard)

1 CREDIT (8815)

*Departmental approval required*

The class will expand on students' understanding of music theory and harmony through improving their skills in notation, interval and chord recognition, scale construction, form, harmonic structure and analysis along with rhythmic and melodic dictation. Students will apply their understanding by composing, with the opportunity to participate in the Vermont Midi project. In addition, students will explore music literature from the Renaissance, Baroque, Classical, and Modern periods and its contribution to the development of Western music. Students should have some familiarity with notation, and some experience with keyboard instruments prior to signing up for the course.

## AP Music Theory

1 CREDIT (8819)

*Prerequisite: Music Appreciation and Theory (Standard); with departmental approval*

Motivated music students who wish to sign up for AP Music Theory will explore the ideas in the Music Appreciation and Theory course at the college level.

## Theatre

St. Johnsbury Academy offers three classes in Theatre, all of which include training in Acting and Musical Theatre. These classes will assist students in attaining crucial skills not only for the theatrical stage but for the stage of life.

### Theatre I (Standard)

1 CREDIT (8824)

This introductory course will give students a general overview of Theatre. Topics include acting technique, stage movement, vocal production, improvisation, script analysis, monologue, and playwriting. A daily physical and vocal warm up will work on stretching, articulation, diction, and projection as well as theatre games and exercises. This course will also introduce the songs of Broadway musicals with a concentration on proper singing technique and basic choreography and movement. This class includes a final project and/or a public performance. This course will support work with Academy Theatre and students are encouraged to audition for Academy Theatre productions.

**Theatre II (Standard)****1 CREDIT (8825)***Prerequisite: Theatre I; with departmental approval*

This course builds upon the foundational skills, topics, and concepts introduced in Theatre I. In addition, we will explore the songs of Broadway musicals, acting technique, and theatre history at a deeper and more concentrated level. Classes will consist of a vocal and physical warm up concentrating on proper technique and form. Students will learn the repertoire of Broadway show tunes from a genre of musical theatre including staging, choreography, and scene work culminating in a semester showcase. This course will support work with Academy Theatre and students are encouraged to audition for Academy Theatre productions.

**Theatre III (Accelerated)****1 CREDIT (8826)***Prerequisite: Theatre II*

This course is for the advanced theatre student who is interested in an accelerated level of training and honing of acting and musical theatre skills including vocal technique, dance, and choreography. There will be a focus on correct theatre terminology/vocabulary, audition technique, and resume writing as well as musical theatre history and repertoire. This class will participate in a semester showcase including solo material, monologues, scene work, and musical numbers from Broadway's biggest hits. This course will support work with Academy Theatre and students are encouraged to audition for Academy Theatre productions.

**Dance**

The curricular dance offerings at the Academy include a focus on the modern dance technique of Martha Graham, as well as classical ballet. The program can provide students with a background in the technique appropriate for those who wish to pursue the serious study of dance in any genre. Extracurricular clubs allow students to explore other dance styles, including jazz, Middle Eastern, and African dance.

**Popular Dance (Standard)****1 CREDIT (8830)**

Popular Dance is a survey course on dance trends that reflect styles and popular moves of different cultures and times. Students will be introduced to various dance idioms that have evolved over the centuries: including Tango, Waltz, Square Dancing, Salsa, Jazz,

Hip Hop, etc. Students will examine the roots of these styles in popular, ritual, and social evolutionary patterns. Students will gain insights into the physicality and mechanics of movement, moving through space, and partnering. Introduction to Popular Dance does not result in the waiver of one credit of physical education.

**Modern Dance I (Standard)****1 CREDIT (8831)***Dance I may be taken multiple times for credit.*

The modern dance technique of Martha Graham is the basis of this class, which progresses carefully from a basic and thorough introduction to an energetic, challenging, and healthful movement experience. Classes are exciting, intense, rigorous, and challenging as they focus on correct technique as well as proper body conditioning and toning. The course is appropriate for novice dancers, as well as experienced dancers who are unfamiliar with Graham technique. Athletes in any sport can benefit dramatically from this course. Some evening and afternoon attendance at dance performances and rehearsals will be required. Completion of one credit of Modern Dance results in the waiver of one credit of physical education, but may not be substituted for Introduction to Physical Education.

**Modern Dance II (Accelerated)****1 CREDIT (8833)***Departmental approval required**Dance II may be taken multiple times for credit.*

Modern Dance II builds on the ideas presented in Modern Dance I and is appropriate for dancers familiar with the ideas of Martha Graham and who have mastered introductory skills. An emphasis is placed on the recognition of familiar body patterns and executing them with the precision the professional dancer or athlete. Some evening and afternoon attendance at dance performances and rehearsals will be required. Completion of one credit of Modern Dance II results in the waiver of one credit of physical education but may not be substituted for Introduction to Physical Education.

**Training for the Athlete (Standard)****1 CREDIT (8835)**

This course is designed to enhance athletes' agility, physical control, coordination, flexibility, and sense of timing. The course focuses on proper and safe body alignment while it develops core strength. Classes are designed to include sport-specific features for in-season training. The class also provides hardy and essential training for athletes in

the off-season. This is not a dance class; it is a class for athletes making use of dance training for complementary cross-training purposes. The course allows students to gain valuable skills to improve their flexibility, range of motion, balance control, speed and agility. Completion of one credit of Training for the Athlete results in the waiver of one credit of physical education, but may not be substituted for Introduction to Physical Education.

**Ballet I (Standard)****1 CREDIT (8837)**

Ballet I provides training in the fundamentals of classical ballet. It focuses on acquiring basic ballet technique and terminology through the examination and assimilation of proper body alignment, turn-out, and muscle awareness. Students will learn ballet positions, terminology, proper use of the arms-legs-feet-back. Instruction will concentrate on imparting correct ballet training while students gain musicality, flexibility, coordination, agility, improved balance, and a sense of space. Completion of one credit of Ballet I results in the waiver of one credit of physical education, but may not be substituted for Introduction to Physical Education.

**Ballet II (Accelerated)****1 CREDIT (8838)**

Ballet II is a continuation of Ballet I on a more demanding level. Exercises are more complicated and demanding, involving changes of direction, feet, sides, front and back. The barre work and center floor are more intricate and incorporate more use of arm and upper body movement in concert with leg work. Exercises coming across the floor and grande allegro are more varied, incorporating jumps, turns, jetes, tour jetes, multiple pirouettes, and beats in longer movement phrases and phrases with rhythmic changes. Use of the upper body and port de bras are incorporated with a focus on creating fluid and well-coordinated movement. Ballet II is a continuation of Ballet I and a preparation for further study of ballet. Completion of one credit of Ballet II results in the waiver of one credit of physical education, but may not be substituted for Introduction to Physical Education.

## Visual Arts

The extensive visual art courses described below are supplemented with extracurricular activities such as the Art Club, Intaglio Society, and Fashion Club.

### Foundations of Drawing (Standard)

1 CREDIT (8851)

Drawing utilizes simple material to explore both our visual perception, and the structural relationships of the world. It is a fundamental tool for effective visual communication. Drawing builds a repertoire of problem-solving strategies that can be utilized in all aspects of life and learning. This course introduces a foundation of technical and language skills, upon which further visual art studies will be built. Weekly homework assignments are designed to reinforce the principles learned in class. Students should expect to pay a small materials fee.

### Anatomy and Figure Drawing I (Standard)

1 CREDIT (8883)

*Prerequisite: Foundations of Drawing*

Knowledge of the structure, balance, and movement of the human figure is an essential skill in many fields of visual art, such as fashion design and animation, and an excellent training in observation and visual problem-solving for any artist. This course builds on observational drawing skills introduced and practiced in Foundations of Drawing.

### Anatomy and Figure Drawing II (Accelerated)

1 CREDIT (8885)

*Prerequisite: Anatomy and Figure Drawing I*

This course will build upon the basics of human anatomy introduced and practiced in Anatomy and Figure Drawing I. Students will explore more deeply the bone and muscular structures, and use these ideas in the creation of large drawing compositions.

### Printmaking I (Standard)

1 CREDIT (8856)

*Prerequisite: Foundations of Drawing*

This course is an introduction to fine art printmaking and an exploration of creative process through intaglio and relief printing. Students will create original compositions, develop and revise images on copper plates, wood blocks, and silk screens, then print the images by hand or on an etching press.

Presentation of prints for group critique and public exhibition are an important part of this course. Students will maintain a body of working proofs and artist proofs that will add breadth and depth to their art portfolios.

### Printmaking II (Accelerated)

1 CREDIT (8857)

*Prerequisite: Printmaking I*

This course is an intermediate level fine art intaglio printmaking experience. The full range of intaglio techniques will be explored including hard and soft ground etching, aquatint, and open and spit bite, as well as all the major engraving techniques. Students will explore the creative process as they deepen their knowledge and comfort level with revising images from proof to proof in pursuit of personal voice, and continue to build their art portfolios. As in Printmaking I, group critique and the presentation of public exhibitions are an important part of this course. Students registered in this class are eligible to join Intaglio Society, and may apply for our annual workshop in Florence, Italy.

### Water-Based Painting I (Standard)

1 CREDIT (8852)

*Prerequisite: Foundations of Drawing*

Students will learn various techniques and effects using water-based paints. They will explore watercolor, gouache, and egg tempera. Watercolor is transparent and allows light to reflect from the surface of the paper. Gouache is a type of paint consisting of a pigment suspended in water which is more opaque than watercolor and provides greater light reflection. The course will finish with a study in egg tempera which is a permanent and fast drying painting medium using a pigment mixed with a binder (such as egg yolk). Its use dates back to the 1st century A.D. and was an easel painting method used until oil painting was invented in 1500. The course will cover design, composition, value and color in landscape, still life, and portrait painting.

### Water-Based Painting II (Accelerated)

1 CREDIT (8853)

*Prerequisite: Water-Based Painting I*

This class is a continuation of the skills and principles introduced in Water-Based Painting I, with added emphasis on individual painting technique and expression. Students will have the opportunity to explore a medium of their choice, polish their skills in painting, and create pigments, binders, and painting substrates. Demonstrations of water-based mediums will be balanced with

lectures and individual projects.

### Oil Painting I (Standard)

1 CREDIT (8893)

*Prerequisite: Foundations of Drawing  
Materials fee required*

Using the medium of oil paint, students will build upon their observational drawing skills to create compositions exploring luminosity, color, transparency, and opacity; as well as form, atmosphere, and other concepts introduced in Foundations of Drawing. Gaining knowledge about the materials and craft of oil painting will be central to the course. Students will grind pigment into oil to make their own paints, prepare their own surfaces to paint upon and learn to handle an oil/varnish medium.

A \$50 studio fee will be collected.

### Oil Painting II (Accelerated)

1 CREDIT (8895)

*Prerequisite: Oil Painting I  
Materials fee required*

Students continue the explorations begun in Oil Painting I, deepening the knowledge of the medium and techniques.

### Photography I (Standard)

1 CREDIT (8841)

*Prerequisite: Seniors and Juniors; materials fee*

Students will learn the foundation principles of photography and the skills and techniques of traditional film processing and printmaking through a fine-art framework. Composition, elements of design, aesthetics, visual literacy, and communication will be emphasized. Students will need a 35mm SLR camera with manual focus and exposure controls. A supplies fee is necessary to cover a portion of materials.

### Photography II (Accelerated)

1 CREDIT (8842)

*Prerequisite: Photography I  
Materials fee required*

Students will engage in a guided discovery of their visual voice while learning advanced principles of photography. Building upon the foundation acquired in Photography I, topics will include the zone system, on camera filters, toning, hand-coloring, and advanced printing techniques. Students will build a portfolio through exploration of different genres.

### Alternative Photographic Processes (Standard)

1 CREDIT (8843)

*Prerequisite: Photography I  
Offered fall semester only*

This course will be an exploration of historical processes, techniques and materials. In this

lab-oriented, hands-on learning experience, students may engage with 19th century photographic processes such as; Anthotype, Chlorophyll, Cyanotype, Van Dyke and Kallitype. Topics will also include pinhole, solography, lumens, photo transfers, liquid emulsion, mordancage, digital negatives, contact printing and handmade emulsions. Alternative processes are an intersection of art, science, the head, heart and most importantly, the hand. It allows for a deep connection to the physical world and engages with photography through a serendipitous, experimental and creative framework with endless expressive possibilities. This course will ask students to engage and understand photography on an artistic and creative level and is well suited for students who like to experiment. This course may be taken after Photo I or any upper level photography class.

### Filmmaking I (Standard)

1 CREDIT (8871)

*Open to Sophomores, Juniors, and Seniors*

Students will explore the fundamental principles of filmmaking. Focusing on storyboarding, cinematography, and editing, students will demonstrate that the primary means of storytelling in film is through visual composition. Students work in a collaborative environment to finish a product, and will have the opportunity to focus on specific areas of the process. Computer literacy is a helpful skill for those wishing to deepen their knowledge of editing.

### Filmmaking II (Accelerated)

1 CREDIT (8873)

*Prerequisite: Filmmaking I*

Students will explore advanced principles of filmmaking. While furthering cinematography and editing skills, students will also study directing and script writing. Typically, the whole class collaborates on a single, long-form project. Each student focuses on one or two areas of film production to achieve expertise in those roles and explore their own aesthetic. Because of the needs of actors and locations for the films produced by this class, filming outside of the school is often required.

### Digital Graphics and Design I (Standard)

1 CREDIT (8874)

*Prerequisite: Foundations of Drawing  
Materials fee required*

This course will expose students to the process of graphic design using computer technology as a tool. Techniques of digital enhancement of photographs and scanned images, and the creation of digital images will be used to explore the principles of graphic

design. Learning the use of Adobe Illustrator and Adobe Photoshop will be major components of this course. Students will work toward the production of a portfolio.

### Digital Graphics and Design II (Accelerated)

1 CREDIT (8875)

*Prerequisite: Digital Graphics and Design I  
Materials fee required*

Students will explore beyond the basics and discover the power and versatility of vector artwork in this intermediate level of Adobe Illustrator. Students will also learn the many capabilities available in Adobe Photoshop and will continue to work toward the production of their portfolio.

### Fashion Design I (Standard)

1 CREDIT (8863)

*Prerequisite: Foundations of Drawing  
Materials fee required*

Students learn the basics of sewing, design and color, and how to create a pattern through draping techniques. Figure drawing skills will be developed through creating illustrations. Students will also learn the basics of jewelry design, beading, and textile printmaking. Students will keep abreast of the current and contemporary trends in the fashion industry and will work toward the production of a portfolio.

### Fashion Design II (Accelerated)

1 CREDIT (8864)

*Prerequisites: Foundations of Drawing, Fashion Design I  
Materials fee required*

Students build upon the skills and techniques attained in Fashion Design I and create a garment from design concept to completion. Learning how to fit a mannequin and a live model will be part of the process. The semester will culminate with students participating in a professional fashion show and the production of a portfolio.

### Fashion Studies (Standard)

½ CREDIT (8865)

The course will begin a focused study in the late 19th, early 20th century and progress through the current period. Students will look at how fashion has changed through the decades, post-2000s and then compare and contrast with the fashion industry as it currently stands. Modern dress will be studied in depth, focusing on specific facets of the modern fashion industry. We will look at hallmark facets and how they have changed; trends, production, labor, socioeconomic standing, status through clothing, and emotional and psychological factors. Fashion studies will look mostly at

Western fashion, specifically in Europe and North America. Meets every other day.

### Clay I (Standard)

1 CREDIT (8867)

*A materials fee may be required.  
Open to Sophomores, Juniors, and Seniors*

Students will be exposed to a wide variety of hand-building techniques and extensive work on the potter's wheel with a strong emphasis on both design and functionality. Students will learn to make serving bowls, pouring vessels, serving trays, coffee mugs and tumblers, lidded forms, and a variety of other pieces using hump and slump molds, coil building, slab construction, and, of course, the wheel. Students may also learn decorative carving techniques as well as the use of decorative stamps and sprigs.

Additionally, a wide variety of glazing processes will be covered including the use of slips, underglazes, engobes, overglazes, sigillattas, and traditional glazes. Students will receive initial instruction on the loading, firing, and unloading of their work.

### Clay II (Accelerated)

1 CREDIT (8868)

*Prerequisite: Clay I  
A materials fee may be required.*

Clay has been used as a medium for both utilitarian purposes and artistic expression for thousands of years, crossing all cultures, lands, and groups of people. From the most primitive pit-fired pot to the most sophisticated computer-controlled kiln-fired art work, clay remains a medium of infinite fascination. This course focuses on expanding student understanding of historical, technical, and conceptual processes associated with working in clay. Students will refine their throwing skills and learn how to create complex forms such as pouring vessels, lidded vessels, and myriad other utilitarian forms. Hand-building processes will also be thoroughly examined and students will be free to choose which method(s) they prefer to pursue. Additional emphasis will be placed on surface embellishment, decorative carving, glaze experimentation, and loading, firing, and unloading kilns. Individual aesthetic expression will be highly encouraged.

### Portfolio (Accelerated)

1 CREDIT (8900)

*Prerequisite: Foundation of Drawing and Painting;  
with departmental approval  
This course is highly recommended for the junior year.*

Students will be expected to do outside reading, homework, and independent studio work as they work toward the production



of a portfolio to use for application to art schools or art programs in traditional liberal arts colleges. It is recommended that this portfolio course be taken only after a student has taken at least one advanced art course that focuses on a particular medium.

### AP Studio Art

1 ½ CREDIT (8899/8896)

*Departmental approval required*

Students will be involved in a concentrated studio of drawing, two-dimensional art and/or three-dimensional art. Emphasis in each area begins with fundamental techniques and includes design principles, the creative process, historical perspective, and contemporary trends. All students will be expected to do substantial outside-of-class work as they complete a portfolio in one or more of these areas for submission to the Advanced Placement program. It is recommended that this portfolio course be taken only after a student has taken at least one advanced art course that focuses on a particular medium. This course will run every day first semester and every other day second semester.

### Advanced Art (Accelerated)

1 CREDIT (8897)

*Departmental approval required*

Students who wish to pursue intensive study in a particular medium, within the visual arts, beyond that offered in our regular offerings may take Advanced Art in a medium one time. In consultation with the instructor, the student in this course will develop a demanding course of study and artistic production. The student will be scheduled into a regular class section of a course in the particular medium of interest. Admission into this course will be reserved for those students who have demonstrated a sincere, significant interest in pursuing artistic excellence, and will be by departmental recommendation only.

### Visual Art Capstone (Accelerated)

1 CREDIT (7702)

*Departmental approval required  
Satisfies the Senior Capstone requirement*

Students who are proficient in one or more visual art mediums may choose to do a Visual Art Capstone for their senior capstone requirement. Each student will design a research-based visual art project to be presented on Capstone Day.

## DRIVER EDUCATION

½ CREDIT (6000)

*Students must be age 15 or above and hold a valid Learner's Permit. NEW HAMPSHIRE STUDENTS MUST BE 16 BEFORE THE LAST SCHEDULED CLASS.*

Driver Education teaches the fundamentals of driving an automobile including proper and safe driving habits. The course consists of 30 hours of classroom instruction, six hours of observation, and six hours of behind-the-wheel driving time. Enrollments often exceed the capacity of the course. Those not offered a spot in the course will be placed on a waiting list based on the same criteria. If you request to be placed on the waiting list after the course has been scheduled and the waiting list created, you will be placed at the end of the waiting list without consideration of year of graduation or date of birth. If openings occur, students will be chosen from the waiting list and notified.

## CAREER AND TECHNICAL EDUCATION

The Career and Technical Education department prepares students for both post-secondary education and the world of work. We provide educational opportunities covering industry-specific skill training and credentialing, general employability skills, academic and career skill integration, and personal enrichment to students from high schools across the region. Our students are prepared for current and future educational and workplace opportunities through hands-on learning, authentic workplace experiences, and classroom instruction.

Courses are offered in the following career clusters:

- Agriculture, Food, and Natural Resources
- Architecture/Construction
- Business and Management
- Hospitality and Tourism
- Human Services
- Transportation, Distribution, and Logistics (TDL)

These courses provide important benefits to students including career awareness and exploration, applied learning of academic skills, and an array of other outcomes, such as positive habits of mind, strong thinking skills, and the opportunity to learn about oneself

and others. Some of these courses also provide in-depth knowledge and experience in a specific career field. Many courses may be taken without prerequisites.

## Career and Technical Education Capstone

### Career and Technical Education Capstone (Accelerated)

1 CREDIT (7707)

*Departmental approval required*

This course is designed to allow students in the career and technical education department the opportunity to develop a Capstone project in their chosen field. Students will meet in a classroom every other day, where they will gain instruction and practice in research skills, oral communication skills, application of research to design, and the iterative process of prototyping, testing, researching, and redesigning their chosen project. On the alternative days, students will work with their CTE mentor/instructor working on their project design, testing, redesigning, and completing their project in their chosen field. They will present their work on Capstone Day.

## Career Awareness

### Career Exploration (Standard)

1 CREDIT (6010)

Career Exploration is designed to teach students how to engage in the career-planning process, focusing on the exploration phase. Students will be involved in hands-on activities across the Career and Technical Education's 16 career clusters to better understand themselves and how they may intersect with the world of work after college or immediately after high school. Students will partake in demonstrations, shadow different classes, and complete self-assessments to explore careers by utilizing an online navigation program and a Career Choices curriculum. They will document their learning and career plans by developing a career portfolio.

### Work-Based Learning (Standard)

1 CREDIT (6012)

1 BLOCK/1 OR 2 SEMESTERS

2 CREDITS (6011)

2 BLOCKS/1 OR 2 SEMESTERS

*Prerequisite: Students need to complete OSHA 10 to be eligible for Work-Based Learning*

Work-Based Learning is a unique plan of education, integrating classroom study with

planned and supervised work experience. It is a partnership between St. Johnsbury Academy and community employers that allows students to participate in related career awareness and work-experience programs. These services combine practical applications in the classroom with skills useful in the workplace and for future employment. Students have the opportunity to gain career experience, develop self-confidence, acquire necessary workplace readiness skills, and in some cases, earn a wage.

## Architecture/ Construction

Bridges, housing, water, sewer, and power distribution systems are just a few examples of human-made structures and systems connected with our natural environment.

All must be designed, engineered, and constructed by people with the goals of sustainability and long-term durability as driving forces.

### Introduction to Woodworking (Standard)

1 CREDIT (6200)  
1 BLOCK/1 SEMESTER

*Open to Sophomores, Juniors, and Seniors*

In this introductory course, students will learn workplace safety by demonstrating the proper use of hand and power tools, safely operating powered machinery, and understanding OSHA standards for small shops. Students will explore project planning, basic design, wood selection, joinery and finishing techniques. This course is project oriented and students are responsible for the purchase of materials for personal projects.

### Advanced Woodworking (Standard)

1 CREDIT (6201)  
1 BLOCK/1 SEMESTER

*Open to Sophomores, Juniors, and Seniors*

Students will learn more advanced skills in the areas of furniture design, construction, and finishing. Techniques will include raised panel construction, dovetail joints, wood turning, inlay, and marquetry. Students will be responsible for purchasing much of their own material.

### Fine Woodworking (Accelerated)

2 CREDITS (6202)  
2 BLOCKS/1 SEMESTER

*Prerequisites: Beginning Woodworking and Advanced Woodworking*

Students will learn more advanced woodworking techniques such as mortis and tenon, dovetails and veneering. Students

will explore working with hand tools and mastering machinery operations. Students will discover woodworking as an art form through design, wood selection, carving and lathe work. Projects are student driven or students may choose to take on custom orders.

### Introduction to Electricity (Standard)

1 CREDIT (6211/6212)  
1 BLOCK/1 OR 2 SEMESTERS  
2 CREDITS (6214/6215)  
2 BLOCKS/1 OR 2 SEMESTERS

*Open to Sophomores, Juniors, and Seniors*

Students will become familiar with basic electrical principles such as Ohm's Law. Each student will acquire a basic knowledge of D.C. and A.C. circuitry, and design, wire, and analyze each circuit. Areas of study will include series and parallel circuits, combination circuits, switching circuits, use of meters, use of various power tools, residential services, appliance circuits, and blueprint reading. This course is an excellent course to strengthen skills for students contemplating entering other craft areas in the construction field. It provides a sound foundation for post-secondary study at either two or four-year colleges.

### Residential/Industrial Electricity I (Standard)

4 CREDITS (6217/6218)  
2 BLOCKS/2 SEMESTERS

*Prerequisite: Introduction to Electricity  
Open to Juniors and Seniors*

Residential/Industrial Electricity provides advanced units of study in A.C. and D.C. circuits, motors, motor controls, conduit bending, advanced blueprint reading, and on the job training. Students participate in the State Apprenticeship program and earn credit toward their journeyman's license.

Students may be referred to Work-Based Learning by their instructor based on the student's meeting the program's technical proficiencies.

### Residential/Industrial Electricity II (Accelerated)

4 CREDITS (6231/6232)  
2 BLOCKS/2 SEMESTERS

*Prerequisite: Residential/Industrial Electricity I*

Residential/Industrial Electricity II provides advanced units of study in A.C. and D.C. circuits, motors, motor controls, conduit bending, advanced blueprint reading, and on-the-job training. Students participate in the State Apprenticeship program and earn credit toward their journeyman's license.

Students may be referred to Work-Based Learning by their instructor based on the student's meeting the program's technical proficiencies.

### Introduction to Heating and Plumbing (Standard)

1 CREDIT (6300)

In this introductory course, students will learn and demonstrate the basic skills that are needed in the heating and plumbing fields. Students will be introduced to specific tools and materials utilized by professionals in the field. As the semester progresses, students will learn about HVAC systems and structures, refrigeration, compressors, basic electricity, metering devices, and piping principles. In addition, students will be introduced to plumbing experiences such as installing, maintaining, and repairing pipe systems. A hands-on approach will be an essential learning principle for this class.

### Heating and Plumbing I (Accelerated)

4 CREDITS (6301/6302)  
2 BLOCKS/2 SEMESTERS

Heating and Plumbing I provides students with an in-depth, hands-on experience with HVAC systems and Plumbing. Students will have the opportunity to work with industry specific materials in residential and commercial settings. Within the HVAC programming, students will have experiences with systems and structures, thermodynamics, refrigeration, basic electricity, and piping principles. Students also will experience Plumbing essentials such as installing, maintaining, and repairing different types of pipe systems; water distribution systems; pipes, valves, fittings and fixtures. Students will be introduced to the State Apprenticeship Plumbing program.

### Heating and Plumbing II

4 CREDITS (6303/6304)  
2 BLOCKS/2 SEMESTERS

*Prerequisite: Heating and Plumbing I*

Heating and Plumbing II builds upon the foundational skills acquired in Heating and Plumbing I, offering advanced, hands-on training in basic HVAC systems and plumbing applications. Students will deepen their understanding of heating, ventilation, and air conditioning, by exploring system diagnostics, energy efficiency, troubleshooting techniques, and complex piping configurations.

In the plumbing portion of the course, students will focus on advanced topics such as blueprint reading, system layout, backflow prevention, water treatment systems, and specialized piping techniques for both residential and commercial

projects. Additionally, students will gain practical experience in adhering to state plumbing codes and preparing for licensing requirements.

This course provides students with opportunities to take on leadership roles in team-based projects, manage real-world job site simulations, and further explore career pathways through the State Apprenticeship Plumbing program. By the end of Heating and Plumbing II, students will be better equipped for entry-level positions in the HVAC and plumbing industries or for further education and training in these fields.

### **Introduction to Construction (Standard)**

**1 CREDIT (6203)**

**1 BLOCK/1 SEMESTER**

In this introductory course, students will learn the basic skills used in the construction industry. Students will be introduced to shop safety, hand and power tools, and construction math. As the semester progresses, students will learn construction techniques and systems such as: floor systems, wall and ceiling framing, roof framing and applications, stair construction, and basic flooring. This course will focus on teamwork and developing proper worksite communication skills.

## **Business and Management**

### **Introduction To Business (Standard)**

**1 CREDIT (6410)**

**1 BLOCK/1 SEMESTER**

*Open to Sophomores, Juniors, and Seniors*

This course provides students with insight into the basic foundations of both successful and unsuccessful businesses, allowing students to understand the various forms that an organization can take. Students examine the importance of the environmental, social, global, economic, and technological influences on business, culture, and the economy. Students will participate in business simulations, outline activities, and group projects to enhance problem-solving, decision-making, and team-building skills.

### **Sales and Marketing (Standard)**

**1 CREDIT (6421)**

**1 BLOCK/1 SEMESTER**

*Open to Sophomores, Juniors, and Seniors*

### **Sales and Marketing (Accelerated)**

**1 CREDIT (6423)**

**1 BLOCK/1 SEMESTER**

*Departmental approval required*

This course provides a foundation for understanding and applying the functions of sales and marketing within local and global economies, with a particular focus on the language of marketing, historical and current patterns and trends, economic considerations, and technological changes, opportunities, and considerations. Information is presented and explored through a variety of mediums, including chapter work, daily tasks, and small and large scale projects throughout the semester that utilize the skills of multiple styles of learning, addresses cultural components, and provides for real world application of content in a context that students can relate to.

### **Entrepreneurship (Standard)**

**1 CREDIT (6422)**

**1 BLOCK/1 SEMESTER**

*Open to Sophomores, Juniors, and Seniors*

### **Entrepreneurship (Accelerated)**

**1 CREDIT (6424)**

**1 BLOCK/1 SEMESTER**

*Departmental approval required*

This course provides a foundation for students to become knowledgeable about the fundamentals of business ownership, as well as the impact of entrepreneurs on society from multiple perspectives: business owners, politicians, scientists, artists, consumers, etc. Students are encouraged to make economic and social connections and use the information to explore the creation of new businesses or additions to existing businesses. Utilizing the information gathered students explore phases of businesses from product creation through finance to experience the process of writing a business plan.

### **Business Management (Accelerated)**

**1 CREDIT (6426)**

*Prerequisite: Complete two Business courses or Department Chair approval*

This course allows students to continue to enhance their business knowledge and explore business interests and topics by providing an overview of business management and administration. Topics to be introduced would be business ethics, law, and global awareness. Specific consideration paid to current issues and their impact on operations, ethics, teamwork, leadership, entrepreneurship, and the global

marketplace. Students will be encouraged to make economic and social connections and analyze current local and global developments that have the potential for an impact on one or more areas of business.

### **Personal Finance (Standard)**

**½ CREDIT (6425)**

**1 BLOCK/1 SEMESTER**

Personal Finance will emphasize the importance of educated financial decisions. This course is intended for all students and will introduce the skills that are necessary for financial success. Topics will include saving and budgeting, banking, payment types, credit scores, financing higher education, renting vs. owning, insurance and taxes, consumer protection, and investing. Upon completion of this course, students will receive a certificate of completion. Meets every other day.

## **Hospitality and Tourism**

### **Restaurants and Food/Beverages Services**

#### **Introduction to Culinary Arts (Standard)**

**1 CREDIT (6510)**

**1 BLOCK/1 SEMESTER**

This cooking class covers the full range of student goals, from those learning to cook and bake for themselves to those aspiring to a career in the hospitality profession. Working in a professional kitchen and the classroom, students will learn the foundations of cooking through a range of cooking and baking methods, with weekly projects as well as special events. Students will build other skills including knife handling, using professional equipment, recipe costing, kitchen safety and sanitation. Students will be introduced to hospitality service through school functions and other public events.

#### **Culinary Arts Level 1 (Standard)**

**2 CREDITS (6512)**

**2 BLOCKS/2 SEMESTERS**

**FALL AND SPRING SEMESTERS**

The Culinary Arts Level 1 course introduces students to the foundational concepts, skills, and techniques in culinary arts, baking & pastry, and hospitality. This course provides hands-on experience, learning and practicing basic professional cooking techniques and

baking methods. This course is an immersive two-semester, double block sessions, with one semester at The Hilltopper Restaurant and a second semester in the Streeter Commercial Bake Shop. The Culinary Arts Signature Program takes place within the Hilltopper Restaurant, where students will hone their knife skills and culinary techniques including identifying cuts of meat, seafood, and vegetables, while learning fundamental cooking methods such as grilling, roasting, baking, sautéing, steaming, and frying using fresh and local ingredients. Many of the items prepared will be served at the Hilltopper Restaurant. The semester culminates with a three-course or banquet buffet menu project that is created, prepared and served by the students. The Streeter Bake Shop houses the Baking & Pastry program with students learning foundational techniques in baking breads, both quick and yeast risen doughs, batters, pastry, restaurant quality desserts with a final challenge to design, bake and decorate a wedding cake. Culinary Arts Level 1 combines both theory and practical applications, emphasizing safety, teamwork, communication, time management, organization, and professional workplace conduct. Culinary Arts Level 1 will prepare students for introductory culinary certifications, such as ServSafe Food Handler, which is valuable for entry-level employment. Students are evaluated through hands-on skill assessments, written exams, and performance-based projects. Completion of Culinary Arts Level 1 is a prerequisite to advance to Culinary Arts Level 2 – Advanced Culinary Techniques & Hospitality Management.

### **Culinary Arts Level II — Advanced Culinary Techniques & Hospitality Management. (Accelerated)**

**2 CREDITS (6521)  
2 BLOCKS/2 SEMESTERS  
FALL AND SPRING SEMESTERS**

*Open to Juniors and Seniors*

Culinary Arts Level 2 is a continuation of foundational skills and focuses on advanced techniques, management skills, and industry-standard practices. The Culinary Arts Signature Program is designed for students interested in pursuing post-secondary hospitality education or direct food service careers for culinary arts, and hospitality. The course consists of two semesters, with immersive, hands-on experiences in the Hilltopper Restaurant challenging students to elevate their proficiency and manage real-world culinary and hospitality situations at the Hilltopper Restaurant. Building on the skills learned in Level 1, this advanced

course places a greater emphasis on refining techniques, menu planning, and introducing the fundamentals of culinary business operations. Culinary Arts Level 2 professional practices include advanced knife skills and butchery, advanced cooking techniques, menu development and cost control, service & hospitality management, entrepreneurship & business fundamentals, and leadership. Beyond the kitchen and classroom, we visit local farms, restaurants, food producers, and vendor food shows. The Culinary Level 2 culminating project is to design, cook, and serve a fine-dining, four-course tasting menu with a focus on seasonality, local sourcing, and sustainability. Students will take on leadership roles in planning, marketing, kitchen production and front-of-house operations. This course level aims to prepare students for advanced industry-recognized certifications in ServSafe Manager and the opportunity to earn five college dual enrollment credits through White Mountain Community College.

## **Human Services**

### **Introduction to Human Services (Standard)**

**1 CREDIT (6610)  
1 BLOCK/1 SEMESTER**

*Open to Sophomores, Juniors, and Seniors*

In this introductory course to the Human Services career cluster, students receive an overview of the Human Services profession including social services, public safety, child development, early childhood education, health careers, geriatrics, social issues, career exploration, communication, goals, and decision making. One block each week is spent visiting area agencies and working on projects in the community.

### **Human and Professional Services I (Standard)**

**4 CREDITS (6600)  
2 BLOCKS/2 SEMESTERS**

*Open to Juniors and Seniors*

This course begins with the exploration of self and community. It provides an overview of human services organizations, values, social issues, and theories. At the end of the first semester, students will work with the instructor to identify community-based internships for the second semester. Internships serve as a tool for students to examine options and educational requirements for careers in human services. Internships also allow students to reflect on and apply the knowledge gained in the classroom. Students are provided

opportunities to experience 2 internships within their areas of interest. This course may result in 3 Community College of Vermont Fast Forward college credits for qualified students. Students will also have the opportunity to earn industry recognized credentials related to human services.

### **Human and Professional Services II (Accelerated)**

**4 CREDITS (6601)  
2 BLOCKS/2 SEMESTERS**

*Prerequisite: Human and Professional Services I*

This course builds on skills learned in Human and Professional Services I with an emphasis on providing services to individuals and families in all development stages. It expands the exploration of social issues, ethics, with a deeper focus on human growth and development throughout the life cycle including physical, cognitive, linguistic, ethical, and psychosocial dimensions. Internships occur both semesters and are selected with the guidance of the instructor and longer in length than Human and Professional Services I. Along with skill development, a secondary goal of these internships is to enhance student preparation for post-secondary life—career or college. This course may also result in 3 Community College of Vermont Fast Forward college credits for qualified students. Students will also have the opportunity to earn industry recognized credentials related to human services.

## **Transportation, Distribution, and Logistics (TDL)**

Transportation, distribution, and logistics workers move people and products by road, air, rail, and water. They work as drivers, pilots, engineers, or captains; repair, maintain, design, or build the vehicles, trains, planes, and ships that move people and products; or work behind the scene to make sure the products and people get to the right place on time.

### **Introduction to Welding (Standard)**

**1 CREDIT (6806)  
1 BLOCK/1 SEMESTER**

*Open to Sophomores, Juniors, and Seniors*

In this introductory course to the Manufacturing career cluster, students are introduced to elementary practices of welding. Students explore basic welding types (SMAW, GMAW, GTAW, CRSW and Oxy-fuel welding), two types of metal cutting

(Oxy-fuel and Plasma Arc), the basic welding symbols, and a weldment drawing, the basic techniques for material preparations. This course uses both group and individual projects and problem-based scenarios as instructional opportunities. Students practice general employability skills such as effective communication, interpersonal skills, and presentation skills. The course is recommended for students interested in Automotive Technology I.

### Advanced Welding (Accelerated)

1 CREDIT (6807)

1 BLOCK/1 SEMESTER

*Prerequisite: Introduction to Welding (Standard)*  
*Open to Sophomores, Juniors, and Seniors*

In this advanced course, students are introduced to advanced practices of welding. Students continue to develop competence in SMAW, GMAW, GTAW in all positions, develop skills needed for AWS flat certification in SMAW, understand the metallurgy of common metal for welding, explore GTAW for Stainless and Aluminum and thin metals, and become competent understanding welding symbols and interpreting weldment drawing. Students will also practice creating a welding project from estimating to building. This course uses both group and individual projects and problem-based scenarios as instructional tools. Students practice general employability skills such as effective communication, interpersonal skills, and presentation skills.

### Introduction to Automotive Technology (Standard)

1 CREDIT (6910)

1 BLOCK/1 SEMESTER

*Open to Sophomores, Juniors, and Seniors*

In this introductory course, students will explore entry level automotive maintenance. Students will be introduced to workplace safety, engine diagnostics, exploration of suspension and brake systems, and introduction to electrical systems. Students will also explore minor body repair. The course is designed to prepare students for Auto Technology I.

### Automotive Technology I (Standard)

4 CREDITS (6911/6912)

2 BLOCKS/2 SEMESTERS

*Open to Juniors and Seniors*

Automotive Technology I offers hands-on shop experience and problem-based learning in a fully equipped mobile equipment repair (mechanics) and/or collision-repair (auto body and painting) facility. Students will learn about areas of the automotive industry as well as transferable skills that apply to automotive systems, oversee scheduling of appointments, ordering parts, managing stock items, assessing collision damage, and mixing and applying modern automotive finishes.

Automotive Technology I provides students with the knowledge and skills necessary to

make informed decisions about pursuing a career in the Transportation, Distribution, and Logistics career cluster. This course is an excellent choice for all students who will need to understand and maintain their own vehicles and equipment or those who wish to follow this path to post-secondary education and employment.

Students may be referred to Work-Based Learning by their instructor based on the student's meeting the program's technical proficiencies.

### Automotive Technology II (Accelerated)

4 CREDITS (6931/6932)

2 BLOCKS/2 SEMESTERS

*Prerequisite: Automotive Technology I*  
*Open to Seniors*

In Automotive Technology II students focus their efforts in a specific career concentration continuing to build on the skills and knowledge learned in Automotive Technology I while focusing on skills and knowledge specific to their choice. Students will be encouraged to pursue further education, obtain ASE or ICAR credentials and/or seek an apprenticeship program in the industry.

Students may be referred to Work-Based Learning by their instructor based on the student's meeting the program's technical proficiencies.



# APPENDIX

## Procedure for Course Selection

With a wide range of courses and about one thousand students, arranging an overall schedule that enables students to achieve their desired goals within the limits of the daily schedule, available faculty, and facilities is a complex task that requires careful planning. The guidance office goes to great lengths to facilitate the scheduling process. To help enable this, the following timeline guides the process:

### January

St. Johnsbury Academy begins the course selection process. Current juniors will meet with a guidance counselor to discuss course selections for the next school year and the options available in the context of their educational plans. Student course selections will be mailed to parents for signed approval.

### February

Current sophomores and freshmen will meet with a guidance counselor to discuss course selections for the next school year and discuss the options available in the context of their educational plans. Student course selections will be mailed to parents for signed approval.

### May

An initial schedule is distributed to each student for a final discussion with their parents and to ensure that the proper courses are listed. Student schedules produced in May will not contain teachers' names or the time at which courses meet.

### August 15

Teacher course assignments, and meeting times and locations are arranged over the summer by mid-August. Student schedules are finalized and academic course loads are balanced over the summer. Up until August 15 students have the unlimited ability to change their course selections. After this date, schedules become increasingly difficult to change.

### After August 15

The only changes that will be permitted after the August 15th deadline, are those that are departmental changes due to a level change.

For students enrolled in a year-long AP Course, if students want to drop from AP down to a different level, this must be done by the mid-term grade report in October. No level changes for AP will be permitted after this deadline, as exams will have already been ordered.

### First day of the semester

Students will receive their schedules, which include the course, location, and teacher name.

### After Week 8 of either semester

No course changes may be made. If a course is dropped for any reason after week 8, the student will be denied credit in that course.

Communication among students, parents and guidance personnel is key to a successful course selection and schedule. Guidance counselors, advisors, students, and parents should be fully aware of the student's needs and each other's responsibilities. Senior year courses can be critical in the college admission process and we encourage seniors to take a challenging academic course load.

## Scheduling Policies

- Freshmen must take eight credits, which must include Humanities, Health, a math course, and Biology. Most freshmen also take Physical Education I.
- Sophomores and juniors must take eight credits of study for the year. If a student is enrolled in an AP class, they may take 7½ credits.
- Seniors must take at least seven credits, though they may take eight. Seniors who sign up for eight credits will not be allowed to drop to seven after the August 15 cutoff date.
- Students may take a fifth course in a semester if that course is Guided Studies, English as a Second Language, or a Performing Arts (acting, band, chorus, or dance) course. Students will not be allowed to drop the fifth course after the August 15 date.

## Teacher/Time Request

Requests to change teachers are not honored unless the student has previously taken a class from that teacher and would prefer a new learning experience. Such a request is subject to space availability, other master schedule constraints, and must be made during the first week of school. No changes are allowed solely for a change in the time a course is offered.

## Driver Education

Driver Education during the school year is a highly desired option and is requested through the course selection process with their guidance counselor. Previous requests do not carry over to the next year and must be made again each year. Acceptance into Driver Education is based on year of graduation and date of birth. Those not offered a spot in the course will be placed on a waiting list based on the same criteria. If you request to be placed on the waiting list after the course has been scheduled and the waiting list created, you will be placed at the end of the waiting list without consideration of year of graduation or date of birth. If openings occur, students will be chosen from the waiting list and notified.

## Student Schedule Appeal

Occasionally, special situations arise that do not fall under the guidelines above. These may lead a student to make a special request to appeal a scheduling decision. In that case, the first appeal must be made to the Department Chair, the second appeal must be made to the Director of Guidance, and the final appeal must be made to the Assistant Headmaster for Academics.

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### Elizabeth Davis

B.S. GREEN MT. COLLEGE  
M.ED. LYNDON STATE COLLEGE

### Lynette Farnham

B.A. UNIVERSITY OF VERMONT  
M.ED. FLORIDA ATLANTIC UNIVERSITY

### Tyler Hartshorn

B.A. UNIVERSITY OF MAINE  
AT FARMINGTON  
M.S. JOHNSON & WALES UNIVERSITY

### Lorna Holcombe

B.S. UNIVERSITY OF MAINE - FARMINGTON  
M.ED. LESLEY UNIVERSITY

### Kimberly Keach '01

B.S., M.ED. PLYMOUTH STATE COLLEGE

### Vanessa Vincent

B.A., M.ED. UNIVERSITY OF VERMONT



**CLASS OF 2024****Colleges Attending**

American University	Maine College of Art and Design	University of Miami
Art Center College of Design	McGill University	University of New England
Babson College	Michigan State University	University of New Hampshire
Ball State University	Middlebury College	University of North Carolina Wilmington
Belmont University	Montana State University	University of Rhode Island
Bishops University (CAN)	Montserrat College of Art	University of the Arts London (UK)
Boston College	Mount Holyoke College	University of Vermont
Bridgewater State University	New York University	University of Washington - Seattle
California State University - Fullerton	North Carolina State University	University of Wisconsin - Madison
Champlain College	North Dakota State University	Villanova University
Christopher Newport University	Northeastern University	Vermont State University
Coastal Carolina University	Norwich University	Webster University Vienna (AUT)
Colby-Sawyer College	Oberlin College	Wentworth Institute of Technology
Columbia University	Plymouth State University	Yale University
Community College of Vermont	Purdue University	
Concordia University	Reed College	
Dartmouth College	Rensselaer Polytechnic Institute	
Delaware Valley University	Rhode Island School of Design	
Drexel University	Rivier University	
Eastern Maine Community College	Rochester Institute of Technology	
Elon University	Rutgers University	
Embry-Riddle Aeronautical University	Saint Michael's College	
Endicott College	Savannah College of Art and Design	
Florida International University	Seattle University	
Framingham State University	Southern New Hampshire University	
Gettysburg College	St. John's College	
Husson University	St. Lawrence University	
Ibero - México City (MEX)	Suffolk University	
Imperial College London (UK)	SUNY Binghamton	
Indiana University Bloomington	Syracuse University	
Johnson and Wales University - Providence	Technológico De Monterrey (MEX)	
Keene State College	The Culinary Institute of America	
La Salle University	Tufts University	
Landmark College	University of Amsterdam (NLD)	
Liberty University	University of California - Riverside	
Loyola University - Chicago	University of Connecticut	
Loyola University - Maryland	University of Illinois - Urbana Champaign	
Macalester College	University of Massachusetts - Amherst	

## SAMPLE 4-Year Course Selection

### Competitive College Preparatory

For those interested in attending highly competitive colleges and universities

#### FRESHMAN YEAR

##### HUMANITIES

Humanities (Accelerated)

##### SCIENCE

Biology (Accelerated)

##### MATHEMATICS

Algebra I (Accelerated)  
Algebra II (Accelerated)

##### LANGUAGE

First of 4 courses in a single language

##### HEALTH AND WELLNESS

Health  
Introduction to Physical Education

#### SOPHOMORE YEAR

##### ENGLISH

AP Seminar or Literary Perspectives (Accelerated)

##### SOCIAL STUDIES

World Civilization Post-1500 (Accelerated) or AP World History

##### SCIENCE

Physics (Accelerated)

##### MATHEMATICS

Geometry (Accelerated)  
Trigonometry (Accelerated)

##### LANGUAGE

Second of 4 courses in a single language

##### ELECTIVES

Combination of courses to make **two** full blocks — chosen to complement student's academic plan

#### JUNIOR YEAR

##### ENGLISH

AP Seminar or Rhetoric and Composition (Accelerated) or AP English Language

##### SOCIAL STUDIES

United States History (Accelerated or AP)

##### SCIENCE

Science Research Methods (Accelerated)

##### MATHEMATICS

Precalculus (Accelerated)

##### LANGUAGE

Third of 4 courses in a single language and  
Fourth of 4 courses in a single language

##### ELECTIVES

Combination of courses to make **two or three** full blocks — chosen to complement student's academic plan

#### SENIOR YEAR

##### ENGLISH

AP Research, Literature and Composition (Accelerated) or AP English Literature

##### SOCIAL STUDIES

United States Government and AP Electives or Microeconomics, AP United States Government and Politics

##### SCIENCE

AP STEM or Elective: Digital Electronics (Accelerated) or Civil Engineering and Architecture (Accelerated) or Biotechnical Engineering

##### MATHEMATICS

AP Calculus AB or BC

##### ELECTIVES

Combination of courses to make **two or three** full blocks — chosen to complement student's academic plan

##### CAPSTONE

Senior Capstone or Engineering Design and Development Capstone (Accelerated)

Students wishing to take **AP courses** in a given subject area will need to take the appropriate **AP Prep courses** as electives.

### College Preparatory

For those interested in attending 4-year colleges and universities

#### FRESHMAN YEAR

##### HUMANITIES

Humanities (Accelerated/Standard)

##### SCIENCE

Biology (Accelerated/Standard)

##### MATHEMATICS

Algebra I (Accelerated/Standard)

##### LANGUAGE

First of 3 courses in a single language

##### ELECTIVES

Chosen to complement academic plan

##### HEALTH AND WELLNESS

Health  
Introduction to Physical Education

#### SOPHOMORE YEAR

##### ENGLISH

AP Seminar or Literary Perspectives (Accelerated/Standard)

##### SOCIAL STUDIES

World Civilization Post-1500 (Accelerated/Standard)

##### SCIENCE

Physics (Accelerated/Standard)

##### MATHEMATICS

Algebra II (Accelerated/Standard)

##### LANGUAGE

Second of 3 courses in a single language

##### ELECTIVES

Chosen to complement academic plan  
Combination of courses to make **two** full blocks — chosen to complement student's academic plan

#### JUNIOR YEAR

##### ENGLISH

AP Seminar, AP English Language, or Rhetoric and Composition (Accelerated/Standard)

##### SOCIAL STUDIES

United States History (Accelerated/Standard)

##### SCIENCE

Science Research Methods (Accelerated/Standard)

##### MATHEMATICS

Geometry (Accelerated/Standard)

##### LANGUAGE

Third of 3 courses in a single language

##### ELECTIVES

Chosen to complement academic plan  
Combination of courses to make **two** full blocks — chosen to complement student's academic plan

#### SENIOR YEAR

##### ENGLISH

AP Research, AP English Literature or Literature and Composition (Accelerated/Standard)

##### SOCIAL STUDIES

AP or Accelerated Electives

##### SCIENCE

Electives

##### MATHEMATICS

Trigonometry (Accelerated/Standard)

##### ELECTIVES

Combination of courses to make **two or three** full blocks — chosen to complement student's academic plan

##### CAPSTONE

Senior Capstone or Engineering Design and Development Capstone (Accelerated)

## SAMPLE 4-Year Course Selection

### Biomedical and Health Science

For those interested in attending Biomedical and Health Sciences programs at 4-year colleges and universities

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
<b>HUMANITIES</b> Humanities (Accelerated/Standard)	<b>ENGLISH</b> AP Seminar or Literary Perspectives (Accelerated/Standard)	<b>ENGLISH</b> AP Seminar, AP English Language and Comp (Accelerated), or Rhetoric and Composition	<b>ENGLISH</b> AP Research, AP English Literature and Composition (Accelerated) or Literature and Composition (Accelerated/Standard)
<b>SCIENCE</b> Biology (Accelerated/Standard)	<b>SOCIAL STUDIES</b> World Civilization II Post-1500 (Accelerated/Standard)	<b>SOCIAL STUDIES</b> United States History (Accelerated/Standard) or AP U.S. History	<b>SOCIAL STUDIES</b> Electives or AP U.S. Government and Economics or AP Microeconomics
<b>MATHEMATICS</b> Algebra I (Accelerated/Standard)	<b>SCIENCE</b> Physics (Accelerated/Standard)	<b>SCIENCE</b> Science Research Methods (Accelerated/Standard)	<b>SCIENCE</b> Elective Chemistry — Accelerated or AP
<b>LANGUAGE</b> First of 3 courses in a single language	<b>MATHEMATICS</b> Algebra II (Accelerated/Standard)	<b>MATHEMATICS</b> Geometry (Accelerated/Standard)	<b>MATHEMATICS</b> Trigonometry (Accelerated/Standard)
<b>ELECTIVE</b> Chosen to complement academic plan	<b>LANGUAGE</b> Second of 3 courses in a single language	<b>LANGUAGE</b> Third of 3 courses in a single language	<b>ELECTIVES</b> Combination of courses to make <b>two or three</b> full blocks — chosen to complement student's academic plan, see below
<b>HEALTH AND WELLNESS</b> Health Introduction to Physical Education	<b>ELECTIVES</b> Chosen to complement academic plan  Combination of courses to make <b>two</b> full blocks — chosen to complement student's academic plan	<b>ELECTIVES</b> Chosen to complement academic plan  Combination of courses to make <b>two or three</b> full blocks — chosen to complement student's academic plan, see sidebar	<b>CAPSTONE</b> Senior Capstone or Engineering Design and Development Capstone (Accelerated)

### Fine Arts Major or Art School

For those interested in attending a 2-year or 4-year art school or majoring in art at a university

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
<b>HUMANITIES</b> Humanities (Accelerated/Standard)	<b>ENGLISH</b> AP Seminar or Literary Perspectives (Accelerated/Standard)	<b>ENGLISH</b> AP Seminar or Rhetoric and Composition (Accelerated/Standard)	<b>ENGLISH</b> AP Research, AP English Literature and Composition (Accelerated), or Literature and Composition (Accelerated/Standard)
<b>SCIENCE</b> Biology (Accelerated/Standard)	<b>SOCIAL STUDIES</b> World Civilization Post-1500 (Accelerated/Standard)	<b>SOCIAL STUDIES</b> United States History (Accelerated/Standard)	<b>SOCIAL STUDIES</b> Electives
<b>MATHEMATICS</b> Algebra I (Accelerated/Standard)	<b>SCIENCE</b> Physics (Accelerated/Standard)	<b>SCIENCE</b> Science Research Methods (Accelerated/Standard)	<b>SCIENCE</b> Elective example: Anatomy and Physiology
<b>LANGUAGE</b> First of 3 courses in a single language	<b>MATHEMATICS</b> Algebra II (Accelerated/Standard)	<b>MATHEMATICS</b> Geometry (Accelerated/Standard)	<b>MATHEMATICS</b> Trigonometry (Accelerated/Standard)
<b>FINE ARTS*</b> Introductory Level Course	<b>LANGUAGE</b> Second of 3 courses in a single language	<b>FINE ARTS*</b> Combination of courses to make <b>four</b> full blocks — choice based on student's art concentration	<b>FINE ARTS*</b> Combination of courses to make <b>two or three</b> full blocks — chosen to complement student's academic plan
<b>HEALTH AND WELLNESS</b> Health Introduction to Physical Education	<b>ELECTIVES</b> Combination of courses to make <b>two</b> full blocks — chosen to complement student's academic plan		<b>CAPSTONE</b> Senior Capstone

\*Students will choose courses based on their desired concentration: **Music/Theater** or **Visual Arts**.

## SAMPLE 4-Year Course Selection

### Career and Technical Education: Post-Secondary or Immediate Employment

For those interested in attending a 2-year or 4-year technical college or university or seeking employment

#### FRESHMAN YEAR

##### HUMANITIES

Humanities (Basic, Standard, or Accelerated)

##### SCIENCE

Biology (Basic, Standard, or Accelerated)

##### MATHEMATICS

Algebraic Foundations I (Standard) or Algebra I (Accelerated/Standard) or Algebraic Foundations II OR an ELECTIVE from any discipline if taking Algebra I (Accelerated/Standard)

##### TECHNICAL EDUCATION

Career Exploration

##### HEALTH AND WELLNESS

Health  
Introduction to Physical Education

#### SOPHOMORE YEAR

##### ENGLISH

Literary Perspectives (Accelerated/Standard)

##### SOCIAL STUDIES

World Civilization II (Accelerated/Standard)

##### SCIENCE

Physics (Basic, Standard, or Accelerated)

##### MATHEMATICS

Geometry (Basic) or Algebra II (Accelerated/Standard)

##### TECHNICAL EDUCATION

Cluster Course I  
Cluster Course II

##### ELECTIVES

Introduction to Computer Science (Standard)  
Exercise Science I or II (Standard)

#### JUNIOR YEAR

##### ENGLISH

Rhetoric and Composition (Accelerated/Standard)

##### SOCIAL STUDIES

United States History (Basic, Standard, or Accelerated)

##### SCIENCE

Science Research Methods (Basic, Standard, or Accelerated)

##### MATHEMATICS

Algebra II (Standard) or Geometry (Accelerated/Standard)

##### TECHNICAL EDUCATION

Combination or Pathway courses to make **four** full blocks — choice based on student's academic plan.

#### SENIOR YEAR

##### ENGLISH

Literature and Composition (Accelerated/Standard) or Technical Communications II

##### SOCIAL STUDIES

Electives

##### SCIENCE

Elective

##### MATHEMATICS

Algebra III/Trig (Standard) or Trigonometry (Accelerated)

##### TECHNICAL EDUCATION

Combination of Pathway courses to make **four** full blocks — chosen to complement student's academic plan (may include co-op second semester).

#### NOTE:

Students may take an approved Learning Support Program, English as a Second Language course, or Performing Arts course as a fifth course each semester. Freshman and Sophomore students not taking a 5th course will be assigned automatically to a Study Block.

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## Accreditation

St. Johnsbury Academy is a member of the New England Association of Schools and Colleges, the National Association of Independent Schools, the Independent Schools Association of Northern New England, and the Vermont Independent Schools Association.

The Academy is fully accredited by the New England Association of Schools and Colleges and has been approved by the Vermont State Department of Education. In addition, the Academy is a member of the College Entrance Examination Board and has been designated by that body as an Examination Center.

St. Johnsbury Academy admits students of any sex, race, color, religion, national or ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the school. It does not discriminate on the basis of sex, race, color, religion, handicap, sexual orientation, national or ethnic origin in the administration of its education policies, admission policies, scholarship programs, and athletic and other school administered programs.

The Academy shall maintain a written policy on student records that is consistent with the Family Education Rights and Privacy Act.

The student must be capable of participating in a full-time academic program, viz., four academic classes per day, with support classes as needed. The student will be satisfactorily promoted by: the public Local Education Agency or equivalent under state regulations; an approved home school plan; or a recognized or approved independent school or equivalent under state regulations; for other non-approved private schools, we will require additional information regarding the curriculum addressed and student performance. The student will be between the ages of 13 and 19 years of age at the time of enrollment or between the ages of 13 and 21 for students who are eligible for special education.

The Vermont State Department of Education in Montpelier requires Vermont private schools to publish the following statement:

### 16 VSA 166 Approved independent schools

(b) Approved independent schools. On application, the state board shall approve an independent school which offers elementary or secondary education if it finds, after opportunity for hearing, that the school provides a minimum course of study and that it substantially complies with the board's rules for approved independent schools. Except as provided in subdivision (6) of this section, the board's rules must at minimum require that the school has the resources required to meet its stated objectives, including financial capacity, faculty who are qualified by training and experience in the areas in which they are assigned, and physical facilities and special services that are in accordance with any state or federal law or regulation. Approval may be granted without state board evaluation in the case of any school accredited by a private, state or regional agency recognized by the state board for accrediting purposes.

(1) On application, the state board shall approve an independent school which offers kindergarten but no other graded education if it finds, after opportunity for hearing, that the school substantially complies with the board's rules for approved independent kindergartens. The state board may delegate to another state agency the authority to evaluate the safety and adequacy of the buildings in which kindergartens are conducted, but shall consider all findings and recommendations of any such agency in making its approval decision.

(2) Approvals under this section shall be for a term established by rule of the board but not greater than five years.

(3) An approved independent school shall provide to the parent or guardian responsible for each of its pupils, prior to accepting any money for that pupil, an accurate statement in writing of its status under this section, and a copy of this section. Failure to comply with this provision may create a permissible inference of false advertising in violation of 13 VSA 2005.

(4) Each approved independent school shall provide to the commissioner on October 1 of each year the names and addresses of its enrolled pupils. Within seven days of the termination of a pupil's enrollment, the approved independent school shall notify the commissioner of the name and address of the pupil. The commissioner shall forthwith notify the appropriate school officials as provided in section 1126 of this title.

(5) The state board may revoke or suspend the approval of an approved independent school, after opportunity for hearing, for substantial failure to comply with the minimum course of study, for failure to comply with the board's rules for approved independent schools, or for failure to report under subdivision (b)(4) of this section. Upon revocation or suspension, students required to attend school who are enrolled in that school shall become truant unless they enroll in an approved public school, approved or recognized independent school or approved home instruction program.

(6) This subdivision applies to an independent school located in Vermont which offers a program of elementary or secondary education through correspondence, electronic mail, satellite communication or other means and which, because of its structure, does not meet some or all the rules of the state board for approved independent schools. In order to be approved under this subdivision, a school shall meet the standards adopted by rule of the state board for approved independent schools which can be applied to the applicant school and any other standards or rules adopted by the state board regarding these types of schools. A school approved under this subdivision shall not be eligible to receive tuition payments from public school districts under chapter 21 of this title. However, a school district may enter into a contract or contracts with a school approved under this subdivision for provisions of some education services for its students.

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### Disclaimer

The courses and curricula described in this catalog, and the teaching personnel listed herein, are subject to change at any time by official action of St. Johnsbury Academy.

The statements in this catalog are for information only and in no way constitute a contract between the student and St. Johnsbury Academy.

St. Johnsbury Academy reserves the right to change any regulation or requirement at any time.

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