



Lyndon  
INSTITUTE

# 2015 January Term Course Bulletin



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## JANUARY TERM

Recognizing that student interest and motivation are vital to educational success, Lyndon Institute is implementing a new initiative aimed at sparking and rekindling student curiosity.

Between the first and second semesters, for the three weeks after the holiday vacation, students will participate in an "interim" term to immerse themselves in either an intensive study of subjects of their choosing or an internship.

**January Term will be held January 5 – 23, 2015.**

The areas of study will be constructed from the passions of our students and faculty. The courses will share many of the following attributes and themes:

- Hands-on, applied, active and creative learning activities
- Trips to subject and topic related sites
- Opportunities to learn, practice, and create using tools of the discipline or trade
- Daily reflection and sharing of learning
- Career explorations within the field of study
- Seminars with professionals or experts in the field of study
- Internships (see more below)
- Building community and relationships
- The building of a deeper understanding of our core values

The objective of January Term is to allow every student to create an artifact, or final product, which reflects the acquisition of skill and knowledge in the field of study. These artifacts will be measured against predefined course requirements and objectives and could include: performances, videos, formal presentations, creation of web page resources, certification in a field, a business plan, a journal, a publication, or a product of some type.

## CLASS SECTIONS

**The four class sections for January Term are:**

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## JANUARY TERM GUIDELINES

- All students are expected to participate in a total of 3 to 4 blocks per day.
- Grades will be pass or fail and will be part of student transcripts.
- Students will earn credit for courses taken:
  - 1-block course will earn .25 credit
  - 2-block courses will earn .5 credit
  - 3-block courses will earn .75 credit
  - 4-block courses will earn 1.0 credit
- The attendance policy as outlined in the LI student handbook is in effect during January term.
- Students will be given the opportunity to self-select their January term classes and no class changes will be made after December 19, 2014.
- Students who are taking courses at other schools will continue to do so according to their schedule.
- Asterisk (\*) indicates prerequisite or special requirement.

## ADVANCED PLACEMENT® COURSES

- Students taking AP courses during January Term will be in class for one half block and will use the remaining half block for study time.
- Students taking more than 2 AP classes during January Term may elect to take one additional block of study time.

## INDEPENDENT STUDY

Students interested in independent study must have a faculty advisor.

## INTERSHIPS

Students will have an opportunity to explore careers prior to making a lifetime commitment by: spending time with a professional currently working in the student's career field of interest; observing day to day activities of someone in the workforce and getting their questions answered. Mrs. Jean Wheeler is the coordinator for the internships.

## DAILY SCHEDULE

BLOCKS (M, T, TH, F)	TIME
A .....	7:50 TO 9:15
B.....	9:20 TO 10:45
LUNCH	
ADVISORY .....	10:50 TO 11:45
C .....	11:50 TO 1:15
D .....	1:20 TO 2:45

BLOCKS (WEDNESDAY)	TIME
A .....	7:50 TO 9:07
B.....	9:12 TO 10:28
LUNCH	
ADVISORY .....	10:33 TO 11:28
C .....	11:33 TO 12:49
D .....	12:54 TO 2:10

## KEY DATES

Course Change Deadline: **December 19, 2014**

Courses Begin: **January 5, 2015**

Exhibition Night: **January 23, 2015, 6 to 8:30 p.m.**

*Exhibition night will feature student final products and will be open to the public.*



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# AP<sup>®</sup> OFFERINGS

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## AP CALCULUS AB (2 SECTIONS)

ULRICH | 0.5 BLOCK

A continuation of the AP Calculus content. Students will more closely examine the Free Response Question phrasing and vocabulary.

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## AP CALCULUS BC

HICKEY | 0.5 BLOCK

This is a continuation of the regular AP course. There will be more exam practice questions provided than during the regular course offering.

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## AP CHEMISTRY

RUMBALL | 0.5 BLOCK

This course is the equivalent of the general chemistry course usually taken during the first year of college. Major areas of coverage include the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, and the basic concepts of thermodynamics. In the second half, students prepare for and take the AP Chemistry Exam in May for potential college credit or advanced placement.

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## AP EUROPEAN HISTORY

SMITH | 0.5 BLOCK

This is a year-long survey course of modern European History from approximately 1450 to the present. It is designed to prepare students to successfully complete the Advanced Placement Exam in European History. This year the exam will be held on Friday, May 8, 2015 at noon. In addition to the intellectual/cultural history, political/diplomatic history, and the social/economic history of Europe, students will focus on developing skills needed to analyze historical documents and evidence. Students will be reading critically and writing in various formats, including persuasive essays, free response questions, (FRQ) and document based questions (DBQ).

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## AP ENGLISH LANGUAGE & COMPOSITION

STAHLER | 0.5 BLOCK

Our January Term study for this course will revolve around a reading of Sarah Bakewell's *How to Live: Or a Life of Montaigne in One Question and Twenty Attempts at an Answer*. So much of AP Composition revolves around the

study of non-fiction, in particular the personal essay form, also known as "creative non-fiction." Writing in France at the height of the Renaissance, Montaigne is attributed with inventing the form. In fact, it is believed he coined the term 'essay' itself from the French verb *essayer*, as in 'to try' (*J'essai*, "I try.") This new form gave him the freedom to attempt, or 'try,' to make sense of his world. Students will read and discuss Bakewell's critically acclaimed biography with the goal of deepening their understanding of and appreciation for the form they are attempting to master and, along the way, a deeper understanding of themselves and their place in the world.

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## AP ENGLISH LITERATURE & COMPOSITION

MCCARTHY | 0.5 BLOCK

Students will learn to analyze and interpret imaginative literature through the careful reading and critical analysis of representative works from various genres and periods. They will explore literary elements such as a work's structure, style and themes, as well as the use of figurative language, imagery, symbolism and tone. In addition, students will develop writing skills to express ideas and analysis in expository, analytical, and argumentative essays.

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## AP MACROECONOMICS

D'OLIMPIO | 0.5 BLOCK

This is a continuation of the AP Macroeconomics Curriculum. An intense study of basic economic concepts that will help students understand the impact that one economic decision making process has on the nations of the world.

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## AP MICROECONOMICS

TANNER | 0.5 BLOCK

This course will cover the basic economic concepts followed by a microeconomic focus (small scale economic factors). The objective of this class will be to introduce basic economic concepts while providing a firm foundation in the key concepts of microeconomics. We will look at the nature and functions of product markets, factor markets and market failure, and how the government interacts with that failure.

## AP MUSIC THEORY

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NORWOOD | 0.5 BLOCK

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A major component of any college music curriculum is a course introducing the first-year student to musicianship, theory, musical materials, and procedures. Such a course may bear a variety of titles (Basic Musicianship, Elementary Theory, Harmony and Dictation, Structure of Music, etc.). It may emphasize one aspect of music, such as harmony; more often, however, it integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition and, to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony are considered an important part of the theory course, although they may be taught as separate classes. The student's ability to read and write musical notation is fundamental to such a course. It is also strongly recommended that the student will have acquired at least

*\*Basic performance skills in voice or on an instrument*

## AP PHYSICS 1

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MCKINNON | 0.5 BLOCK

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The AP Physics 1 course is designed to enable you to develop scientific critical thinking and reasoning skills through inquiry based learning.

## AP PHYSICS 2

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MCKINNON | 0.5 BLOCK

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An expansion upon the AP Physics 1 course.

## AP STUDIO ART

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REEVE | 0.5 BLOCK

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AP Studio Art follows the College Board curriculum/syllabus for studio art. The course requires dedication, hard work, and high levels of artistic ability and understanding. Students will develop a cohesive body of work investigating a strong underlying visual idea that grows out of a coherent plan of action or investigation, referred to as a *concentration* (12 pieces). Students will also create 12 pieces ranging in scope and technique, referred to as *breadth*. Lastly, students will create five extraordinarily high quality pieces. In total the portfolio consists of 29 works of art. Students will be required to work both in and out of school in order to complete their artwork assignments and will understand artistic integrity. The AP Studio Art portfolio can be used with college applications when applying to art schools or universities.

## AP U.S. HISTORY

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BERRY | 0.5 BLOCK

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AP United States History is an upper level course designed for juniors planning to attend competitive colleges. The survey course covers our nation's history between colonization and the present, with attention to current events and topics of interest. Extensive research and critical analysis papers are required each semester.

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# RECOVERY COURSES

## ALGEBRA 1 RECOVERY

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DUNPHY-BROWN | 1.0 BLOCK

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## PRE-ALGEBRA RECOVERY

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DUNPHY-BROWN | 1.0 BLOCK

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## ALGEBRA 2 RECOVERY

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PEARCE | 1.0 BLOCK

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## GEOMETRY RECOVERY

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PEARCE | 1.0 BLOCK

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The above courses are designed to help students potentially recover credit they have lost due to low grades. Transcripts will be reviewed and a plan for units and concepts in need of strengthening will be created for students to assist them to gain mastery of material needed to recover credits.

## U.S. HISTORY RECOVERY RESEARCH PAPER

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MCCAFFREY | 1.0 BLOCK

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This is intended to help students recover credit for U.S. History. Students are required to write a five to seven page research paper and create a visual display of the information.

*\*Two sections of U.S. History Recovery may be offered*

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# ON-GOING COURSES

## LNA

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SICARD | 2.0 BLOCKS

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This is the concluding portion of the LNA program (for existing LNA students) which is dedicated toward gaining clinical experience, workplace readiness and preparation for state NACES testing to obtain your license which will occur in February.

*\*Must be A and B blocks*

## METAL FABRICATION 1

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TYLER | 1.0 BLOCK

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Students will continue with their welding metal fabrication skills working toward GMAW, FCAW, SMAW, and GTAW development. Students will work on plasma arc cutting, oxy-fueled cutting, blueprint reading, and virtual welding simulator training. Students will learn how to read welding procedure sheets and how to write them.

## METAL FABRICATION 2

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TYLER | 1.0 BLOCK

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Students will continue with their welding metal fabrication skills working toward GMAW, FCAW, SMAW, and GTAW development. Students will work on plasma arc cutting, oxy-fueled cutting, blueprint reading, and virtual welding simulator training. Students will learn how to read welding procedure sheets and how to write them.

*\*Metal Fabrication 1*

## ROBOTICS

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MCKINNON | 1.0 BLOCK

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This will continue the classes "Robotics 1" and "Robotics 2". These classes are project-based learning courses with a culminating project due at the end of February for the Vermont FTC Championships. The class will use the time to develop and test their robots. A presentation of their project will be available during the final January Term exhibition.

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# NON-TRADITIONAL OFFERINGS

## ALL ABOUT ELEPHANTS

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PEARCE | 1.0 BLOCK

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Using information obtained from all facets of media, students will learn as much about elephants as possible in three weeks. Topics could include, but are not limited to: elephant development from birth to death; elephant distribution throughout the world in captivity and the wild; elephant habitat/species identification; elephant anatomy; social lives of elephants; weight and mass; elephant diet and digestive systems; elephant hearing and communication; evolution/species comparison; and elephant handling.

## ALPINE SKI TEAM

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KRESSER/LEAFE | 2.0 BLOCKS

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In addition to extended training for ski team members, students will videotape their technique for analysis, and will learn principles of race tactics, race fundamentals, and ski tuning. Guest speakers will highlight career opportunities available within the ski industry. Students will collaborate with the film production class on a promotional video for use in the admissions program.

*\*Must be blocks C and D*

## THE ART OF KNOT TYING

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HICKEY | 1.0 BLOCK

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Students will learn how to tie over two dozen knots. They will learn when to use each knot and the attributes of each. The history of some knots will be discussed as well as some of the mathematics.

## THE ART OF REBELLION

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MCCARTHY | 1.0 BLOCK

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Through watching films that center on various forms of rebellion, the class will explore not just the cause and effects of conflict, but the purpose and art behind the depiction.

## **THE ART OF THE SHOT**

RAYMOND | 1.0 BLOCK

It may seem hard to imagine, but in the late 1800s and early 1900s, before baseball became the 'national sport', organized target matches were the most popular sport in this country. Men and women would gather on a Sunday afternoon at their local rifle club or town square to participate in matches which involved shooting at a target 200 yards away, from the off-hand position. Many of the pictures and lithographs (think Currier and Ives) from that era show men dressed in formal attire with rifle raised and pointed at a distant bull's eye target. The class will include a possible field trip to the field and stream club to see the style of antique firearms that the students will learn about.

*\*Prerequisites: Student interview, instructor permission, and parental permission, limit 5 students per section*

*\* Course will have 2 sections – 5 students each section*

## **ASE – AUTOMOTIVE SERVICE EXCELLENCE**

CAMBER | 1.0 BLOCK

This course is preparation for the industry standard ASE tests. Intense study of the eight ASE Areas of Automotive Repair: brakes, suspension and steering, electrical systems, engine performance, engine repair, automatic transmission, manual transmission, heating & air condition, maintenance & light repair.

## **ASTRONOMICAL IMAGING**

ULRICH | 1.0 BLOCK

Students will gain insight into theoretical and practical astronomy topics. Students will drive the discussion towards other topics of interest as well, making discoveries through collaboration and research. Students will choose a topic of special interest and produce an image for display at the end of the course.

## **ASTRONOMY: MYTH, HISTORY, AND PRACTICE**

DAVIS | 1.0 BLOCK

This course is an introduction to the concepts of modern astronomy, the mythology associated with it, and practice with actual instruments.

## **BASIC HYDROPONICS FOOD PREPARATION**

LEONARD | 1.0 BLOCK

Hydroponics is the growing of plants such as vegetables and herbs (food crops) in a nutrient solution or environment (without soil) for human consumption. It can also be used for growing animal fodder. Students will interact with hydroponics technologies on the internet and will engage participants experientially in nutrient management, plant propagation, environmental control, plant culturing and management. Students will show proficiency by completing a working hydroponic system.

## **BASIC WOODWORKING**

LEONARD | 1.0 BLOCK

Beginning woodworking is designed to teach students basic skills and knowledge in preparation for their lives as adults. The course will emphasize hands-on training and lead discussions on woodworking theory and application. This course will introduce students to hand tools as well as portable and stationary power tools. Students will complete individual projects designed to provide practical experience in construction theory. Learn to use basic wood finishing techniques and use wood sealants and finishes.

*\*Will offer 2 sections*

## **CAREER AND COLLEGE EXPLORATION & COLLEGE READINESS**

GONYAW-WORTH | 2.0 BLOCKS

Students will explore colleges and careers, gaining insight into how their backgrounds, goals, and personalities will help them make decisions around those issues. They will research what they need to do in high school to meet the demands of college and what must be done in college to meet the demands of the career. Students will learn about college life and what skills they will need to develop for that transition.

## **CARRYING ON THE ART OF RUG HOOKING**

KENNEDY | 2.0 BLOCKS

Students will learn about the history of early rug hooking, become familiar with a variety of rug hooking techniques and styles, and learn the basics of rug hooking and design to create their own projects. Opportunities to learn about the rich history of this traditional craft and modern takes on it will be available, as well as opportunities to experience the vibrant members of the local rug hooking guild whose members possess a wealth of oral histories to share along with their rug making skills.

*\*Optional student fees: \$50 if they wish to purchase a hooking frame*

## **CHINESE CHARACTERS: STRUCTURE AND MEANING OF THE CHINESE WRITING SYSTEM**

MOLD | 1.0 BLOCK

Students will be provided with a comprehensive overview of the Chinese writing system. Students will learn about the history and development of the writing system and learn radicals, components, stroke order, calligraphy, and more. They will also learn 100 basic characters and their meanings.

## **THE CHOREOGRAPHY PROJECT**

MCGREGOR | 2.0 BLOCKS

This course is an intense and challenging exploration of dance elements and one's creative mind. Every day students will be faced with timed movement assignments, creating and revising work, establishing their own online choreography portfolio, and developing work for public performance and adjudication. Students will work against deadlines, open their minds to new ideas, and be ready to physically and mentally dive into the art of making dances.

## **COACHING YOUTH SPORTS**

ALDRICH-SIMPSON-GUCKIN | 1.0 BLOCK

Students will develop an understanding of the skills and philosophy of coaching, leadership, and practice plans. Skill development, strategies, and year round programs will also be explored. Students may work toward certification in specific sports.

## **COMPARATIVE RELIGION**

SIMPSON/LEONARD | 1.0 BLOCK

This course is a journey through multiple religions, comparing creation stories, tradition and beliefs, and the apocalypse. Students will discuss questions such as: What are common themes among religions of the world? and Are beliefs really that different? Students will learn about Native Americans, Buddhism, Judaism, Christianity, Muslim and more.

## **COMPETITIVE MATH PROBLEMS**

HICKEY | 1.0 BLOCK

Students will solve very challenging math problems that do NOT require Calculus. Emphasis will be on innovation and creativity. Problems will be selected from contests such as the UVM Math Prize, VT Talent Search, AMC, AIMEF, NE Math League, and more.

## **COOKING AND BAKING 101**

PAUL | 1.0 BLOCK

A course for beginners. Do you want to know how to cook great food for yourself and others? If so, this course is for you. The course will focus on basic cooking and baking techniques, food safety and preparation, and will incorporate local foods.

## **COOKING AND BAKING 101**

PAUL | 2.0 BLOCKS

An expanded class, offering additional time to explore cooking and baking.

## **COOKING SKILLS FOR LIFE**

CHEF CRAIG | 1.0 BLOCK

The course will focus on skills that are needed to become comfortable prepping and preparing a well-balanced meal for everyday life. This will include proper and safe food handling skills, the importance of proper seasoning techniques, and prep work to get the job done. We will prepare cream based soups, broth based soups, stews, salad dressings, popular breakfast, lunch, and dinner entree items that will be class chosen. We will look at the differences it makes in the end product when using fresh versus frozen and canned foods, and will touch on some basic baking skills.

*\*Must be scheduled block D only*

## DANCE AS ENTERTAINMENT

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MCGREGOR | 1.0 BLOCK

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This course looks at the evolution of dance, choreography/movement in movies, on tv/reality shows, and the internet/youtube. Students will watch clips online, portions of films with choreography throughout the 1900s, study movement in commercials, on tv and reality shows, then discuss the changes that have occurred, analyze the messages portrayed, and evaluate how dance is becoming viewed in our society. The class will work in collaboration with the Filmmaking class to create a short commercial about the evolution of dance as entertainment, using elements and artistic expression. This commercial will be shared in the final exhibition with students in The Choreography Project course.

## DISCOVERING, UNDERSTANDING, AND HAVING AN IMPACT ON THE DOG RESCUE PROBLEM

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LEMNAH | 1.0 BLOCK

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Students will research area rescue shelters, learn their needs and the reasons they exist at all, and create a service – learning project to assist a shelter as well as consider possible efforts on a larger scale.

## ENGINEERING AND EMPIRE: DESIGNING & BUILDING A ROMAN AQUEDUCT

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DAVIS/SIMPSON | 1.0 BLOCK

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Using modern materials and drafting techniques, students will research the methods Romans used to get water to their cities, a practice which is still used in places like New York and California. Students will construct a working scale model.

## FASHION 101

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HEGARTY | 1.0 BLOCK

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The course would look at fashion trends in the fashion industry past and present. The class would also encompass marketing, merchandising, window display and textiles. We would look into the qualities and skills necessary to become a designer or a merchandiser. People in the fashion industry wear many hats, so we will examine haute couture to budget clothing. What makes and breaks a designer? For instance, how does some of Michael Kors' designs end up at TJ Maxx? What made Lili Pulitzer such an icon in the fashion world?

## FILM PRODUCTION

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FALES | 3.0 BLOCKS

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Do you love movies? How about those cool artsy clips on YouTube and Vimeo? Ever dream of making your own movie or video short? In this course you will do just that. Join us as we learn the art of filmmaking. You will be the directors, the lighting and sound technicians, the videographers, and the post production crew. Learn these skills by doing them. You will research and build your own camera rigs; film and produce your own video shorts based on different themes that will allow you to practice and learn skills such as shot design, framing, camera movement, lighting, sound, storytelling, editing, and post production. As a final class project, you will collaborate with members of other January term classes to film and produce both a commercial and a feature film for student and community exhibition.

## FLY FISHING: TYING IT ALL TOGETHER

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MCCARTHY | 1.0 BLOCK

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Students will learn how to tie and cast a fly. They will also learn more about tactics and techniques for fly fishing by reading magazines and literature.

## GROUP GAMES: THE ART OF TEAMWORK

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ALDRICH | 1.0 BLOCK

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Students will engage in activities that require teamwork; they will develop strategies for competing to share with the class; and will develop a new game of original origin.

## HISTORY OF RUSSIAN/SOVIET CINEMA

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STROKANOVA 2.0 BLOCKS

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This course features watching movies and lead discussions based on the movies from different periods of Soviet history. Emphasis will be placed on the specifics of Soviet and Russian culture and history in the cinema and the impact of the times and political circumstances. Movie maker's styles and the specifics of the implementation/presentation of their ideas and messages to the audience will also be discussed.

*\*Must be AB blocks*

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## HISTORY OF WASHINGTON D.C.

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MCCAFFREY | 1.0 BLOCK

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Students will study the layout of the city and various monuments and buildings that can be found there. They will create a travel guide for Washington D.C.

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## HUMANS OF THE NORTHEAST KINGDOM

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STEEN/BIAS | 2.0 BLOCKS

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Modeled after Brandon Stanton's photo blog, *Humans of New York*, this course will allow students to photograph and interview people throughout the Northeast Kingdom. Students will study and practice effective photography and interviewing techniques before venturing into the community to capture the images and stories of its people.

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## INTERNSHIPS

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WHEELER

---

Students will have an opportunity to explore careers prior to making a lifetime commitment by : spending time with a professional currently working in the student's career field of interest; observing day to day activities of someone in the workforce and getting their questions answered.

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## INTRODUCTION TO BAKING

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TESTER | 2.0 BLOCKS

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Students will be introduced to the fundamental concepts, skills, and techniques of baking. There will be special significance place on formulas and measurements, ingredient functions and quality, the baking process, baking utensils, and product identification as applied to baking. Lecture and demonstrations will cover yeast-raised dough, mixing methods, pie dough, basic cakes and quick bread type batters.

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## INTRODUCTION TO HOCKEY

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ALDRICH | 1.0 BLOCK

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Students will develop an understanding of the sport of ice hockey.

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## INVENTOR'S WORKSHOP

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RUMBALL | 1.0 BLOCK

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Have you ever had an idea for an invention and wondered what it would take to patent it? If so, this course will attempt to take an invention from just an idea to nearly a patented invention. You don't need an idea for the course to see how it all works.

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## LETTER WRITING AND THE VALUE OF LETTERS OVER TIME

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LEMNAH | 2.0 BLOCKS

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If you have a letter from a family member that you treasure but haven't written a letter in years, or if you are curious about how plain old letters could really count in the grand scheme of things, then please join this course to look at old letters, write new ones, and make your own personalized stationery.

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## LGBTQ HISTORY AND CULTURE

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DI GUILIO | 1.0 BLOCK

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This term experience will highlight the contributions of lesbian, gay, bisexual, transgendered, and queer peoples to human history and culture. It is interdisciplinary in focus, so while its framework will be mostly a chronological and historical one, there will also be ample discussion of artistic and literary accomplishments, and a variety of expressive options available. Students will explore the history, lives, accomplishments and cultural artifacts of LGBTQ persons. Students may examine art, literature, dance, drama, film, or other traditions.

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## LI'S ATHLETIC AND ACADEMIC LEGACY

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SMITH/ WHEELER/COURSER | 2.0 BLOCKS

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Students will investigate and research Lyndon Institute's rich athletic and academic awards history. The goal is for student to work collaboratively to identify award honorees, compile biographical information, and create displays for Honor's Assembly. In addition, students will update the athletic recognition shields and trophies outside the auditorium and create a database of award recipients. Current LI students will take an active role in honoring former students and their families and strengthen community ties.

*\*The course can accommodate students for a single block as well*

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## LOCAL AUTHORS

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ANDREWS | 1.0 BLOCK

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Students will read and meet a variety of local writers of different genres. Students will be encouraged to produce writing of their own, either to be published or for personal achievement.

## LOSS & GRIEVING

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KENNEDY | 1.0 BLOCK

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Using their own questions as the driving force, students will examine the many losses we experience in life and how we handle loss. Through exploration of a variety of resources, including but not limited to religious leaders, grief counselors, historians, fiction and nonfiction texts, videos, and one another, students will delve into thanatology – the study of death and dying. As human beings, it is natural to face loss often in our lifetime, yet rarely do we talk about it candidly. If you've ever asked yourself, "why did this happen to me?" or "what happens when we die?" Then this is the class for you.

## A LYNDON HOME COMPANION

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NORWOOD | OPTION FOR 1.0 OR 2.0 BLOCKS

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Are you a songwriter, storyteller, musician, narrator, or actor? Then come create a variety show in the style of "A Prairie Home Companion." Aren't familiar with the show? That's okay. Imagine a course where scriptwriting, singing, music composition, skits, sound effects, podcasts and performance all come together in a one hour (or more) presentation. Creativity and innovation are a must!

## THE MATHEMATICS OF SPORTS, GAMES, AND GAMBLING

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CRITCHLOW | 1.0 BLOCK

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When should a football team go for it on fourth down? What's the best strategy for taking and defending penalty kicks in soccer? How do professional poker players make high-stakes decisions, and what does this have to do with car insurance? How do pollsters predict election results, and how do bookies in Las Vegas set the odds for sporting events? Can you reliably make money at the casino, or on a game show? This course won't necessarily teach you how to "get rich quick," but it might help you avoid "getting poor quick," and will definitely help sharpen your decision-making skills in uncertain and risky situations. Drawing on theory from probability, statistics, psychology, and economics, students will take a case-study approach to quantifying and analyzing a variety of sports and games.

*\*Satisfactory completion of or co-enrollment in Algebra II*

## METAL FABRICATION FOR THE ARTIST: JEWELRY & SCULPTURE

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REEVE/TYLER | 2.0 BLOCKS

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In this course students will explore the unexpected malleable nature of metalsmithing and jewelry making, stretching and compressing metal to create intricate patterns and imagery. Using the theme "chasing nature" as a starting point, students will develop a series of artistic jewelry pieces, and a final metal sculpture to display their compiled work. Students will learn to manipulate metal to create a bracelet, necklace or pendant, and ring. Advanced students can continue to make earrings and a brooch, as well as create ceramic beads. All students will create a final sculpture piece that will encompass all their work for display; for example, a metal jewelry tree to display necklaces. Students will be expected to maintain a portfolio of work, including sketchbook drawings, photographs, and artifacts.

## MINI MAKER SPACES & CREATIVE CAFES: OUT OF OUR MINDS

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MCDONOUGH | 1.0 BLOCK

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Creating, Imagining, Innovating: trying a different way. Generate novel ideas and seek fluency and originality in learning. Discover mini maker spaces and creative cafes to seek the balance between work and play!

## MODEL UNITED NATIONS

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BERRY | 2.0 BLOCKS

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Model United Nations is an educational simulation in which students learn about diplomacy, international relations, and the United Nations. Model United Nations involves research, public speaking, debating, and writing, in addition to critical thinking, teamwork, and strengthening your leadership abilities. Students have the opportunity to represent a nation and conduct significant background research on that nation and its views on specific international issues. A simulation of a United Nations session will follow where students debate and develop resolutions to global issues.

*\*The course can accommodate students for a single block as well*

## **THE MOTH – TRUE STORIES TOLD LIVE**

STEEN | 1.0 BLOCK

Modeled after NPR’s “The Moth Radio Hour,” this course will allow students to delve into the art of live storytelling. Students will study and practice effective oral storytelling techniques and craft their own story through a writing workshop model.

## **NATURE PHOTOGRAPHY**

KLEIN | 1.0 BLOCK

This course will explore nature through the use of a camera’s lens. We will investigate our local environment with an artistic eye in order to capture the beauty of the Northeast Kingdom. Students will learn the components that make up a good photograph, the basics of equipment, the role of photographs in environmental studies, and overall appreciation for our locale.

## **NEAR-SPACE BALLOONING**

CRITCHLOW | 2.0 BLOCKS

Students will research near-space (65,000 - 300,000 feet) science and engineering, and then design, build, test, and finally launch a near-space balloon that will carry scientific instruments, a camera, and various tracking devices into near-space before descending, via parachute, to earth for retrieval.

## **NEW PRODUCT DEVELOPMENT AND THE WORLD OF PACKAGING**

REIS | 1.0 BLOCK

In this course, students will investigate, explore, and learn about the new product development process as it relates to new packaging development. They will explore important stages in new product/package development (creative brainstorming, fabrication and engineering/testing/ergonomics, marketing (the four Ps), focus groups, consumer trends and the consumer buying process, supply chain management, recycling, merchandising and sales.

## **PHOTOJOURNALISM**

LEGGE | 1.0 BLOCK

Students in this class will use their cameras to document LI’s January Term session. Students will approach this class as if they are covering the classes for media distribution. In addition to covering classroom activities, students will incorporate portrait, still-life and sports

events into their curriculum to gain a broad base of comfort and knowledge in a variety of situations. Students will be required to produce content for the school’s social media sites, weekly newsletters and monitors.

## **POWERSPORTS MAINTENANCE AND REPAIR**

CAMBER | 2.0 BLOCKS

The course will cover the diagnosis of issues, maintenance and repair of ATVs, snowmachines, and motorcycles. Electrical, engine and powertrain diagnosis, exploring the damaging effects of ethanol or new fuel blends such as ethanol on the fuel lines, carbs, etc., and how to counteract them will be covered.

*\*Introduction to Auto*

## **PUBLIC SPEAKING**

DUNPHY-BROWN | 1.0 BLOCK

This course is designed to provide students with training in public speaking and communication. The goal is to equip students with the skills and knowledge needed to speak in a variety of situations.

## **READING AND WRITING ABOUT NATURE**

ANDREWS (KLEIN) | 2.0 BLOCKS

In conjunction with the Nature Photography course, students will read prominent nature authors (Muir, Thoreau, contemporary essays) and write about nature in a variety of genres, ultimately providing caption pieces for nature photos.

## **RECREATIONAL KAYAKING**

CROOKS | 1.0 BLOCK

This course will cover the history and evolution of open water kayaking. Kayaking skills and safety standards will also be covered.

## **REPUBLIC: IF YOU CAN DESIGN IT**

DAVIS | 1.0 BLOCK

Students will research various forms of government, read and discuss the works of famous political theorists such as John Locke and Niccolo Machiavelli, then create a new government and constitution based on their research. Have you ever complained about the government? Well, find out how government works!

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## **ROLE-PLAYING GAME INTENSIVE**

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DI GIULIO | 1.0 BLOCK

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The impact of table-top role-playing games on geek culture cannot be overstated. In this term experience, students will play a variety of games, discuss their design and function, and trace the development of gaming systems over the past 40 years. Students will then design their own role-playing game system.

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## **THE SCIENCE OF ROLLER COASTERS**

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RUMBALL | 1.0 BLOCK

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Why are roller coasters such fun to ride? What are the limitations and possibilities for roller coasters? Surprisingly, all of the answers involve science. Explore the science of roller coasters by building and studying a model roller coaster.

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## **SCIENCE OF SUPERHEROES**

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KLEIN | 1.0 BLOCK

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Students will use characters and concepts from superhero comics, books, and movies to explore some basic principles of biology, chemistry, and physics. What is the science behind science fiction? Is an Ironman suit possible? How could Spiderman cling to walls? Is there an X-men gene for mutants?

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## **SCIENCE YOU NEED TO KNOW: SCIENCE IN THE NEWS**

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KLEIN | 1.0 BLOCK

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Science and technology is ever more integrated into our daily world. Do you fully understand the underlying science of current events? Through the use of modern media, students will explore the science behind the headlines.

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## **SIGN LANGUAGE: COMMUNICATION WITH PEOPLE WHO ARE DEAF, HARD OF HEARING, DEAF BLIND**

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MCDONOUGH | 2.0 BLOCKS

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This course offers an exploration of the impact of deafness and the learning of language. A 500+ American Sign Language vocabulary will be learned along with career explorations for teacher of the deaf, sign language interpreter, audiologist, speech therapist, and deaf blind intervenor.

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## **SO YOU WANT TO BE A LITTLE LEAGUE UMPIRE?**

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D'OLIMPIO | 1.0 BLOCK

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The intent of this class is to provide students with the tools they need to be effective and fair base umpires of Little League baseball, to serve as role models to youth players, and to help develop a class of future volunteer umpires that will take the field for Lyndon Youth Baseball in the Spring of 2015. The skills to umpire will be learned in the class and the application of the skills will be over the course of the 2015 Little League season. Previous knowledge is valuable.

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## **SONGWRITING AND SOUND RECORDING**

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SPEER | 3.0

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This course will explore songwriting of modern popular music from writing through post-recording production. We will begin with a study of common elements of popular songs. Next we will explore how to capture sounds of instruments with the use of hardware elements such as microphones and software loaded on computers. Students will create multi-track recordings as individuals or as groups. Collaboration will be encouraged, but not required. Industry professionals will be brought in to assist with ideas and to share their expertise about how to make a career in music. Students will present their recorded songs as evidence of their learning and possibly perform live during the final exhibition.

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## **STRESS REDUCTION THROUGH YOGA PRINCIPLES**

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KENNEDY | 1.0 BLOCK

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A new national survey suggests teens across the USA are feeling high levels of stress that they say negatively affect every aspect of their lives. This course is designed to help students recognize the stressors in their lives and choose from a variety of techniques to reduce stress. We will explore principles from yoga, including meditation, chanting, breathing exercises, writing, and asanas. We will also explore relaxation through art and music.

*\*Student fees: \$14 if they wish to purchase the text*

## **TAKE ME OUT TO THE BALLGAME: A BRIEF HISTORY OF BASEBALL IN AMERICA**

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D'OLIMPIO | 1.0 BLOCK

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Using an interdisciplinary format, students will learn about the history of baseball from its birth to the present. Using primary documents, documentary film and television programs, newsreels, newspaper and magazine articles, readings and historical archives from the Baseball Hall of Fame, students will gain a wide understanding of how baseball has helped to shape our country. The culminating project for this course will be a research project on the history of baseball at Lyndon Institute.

## **TEAM BUILDING GAMES**

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BUGBEE | 1.0 BLOCK

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Students will participate in a variety of team-building games and will be asked to take risks to explore themselves and others. Journal writing will offer opportunities to reflect about daily activities. In groups of 3 or 4 students will facilitate a game/activity that promotes team building.

## **TRAVELING CHILDREN'S THEATER**

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WAYNE | 2.0 BLOCKS

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Students will produce a children's theater production from start to finish, including cast, assistant direction, props, costumes, and acting. The final product will be toured to various schools in the area.

## **THE ULTIMATE SPORT**

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CROOKS | 1.0 BLOCK

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Students will research and discuss the history and evolution of Ultimate. Insight and instruction will be given on both technical skills and in-game strategies. This portion of the course will be hands on via playing in the gym.

## **VIDEO GAME DESIGN**

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DI GIULIO | 2.0 BLOCKS

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This term experience will provide an opportunity for students to immerse themselves in the world of videogame design and development. Participants will learn key programming constructs using Game Maker ([www.yoyogames.com/studio](http://www.yoyogames.com/studio)) software. By the end of the course, students will create and publish at least one video game.

## **VIVA SPAIN!**

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MINGS LAMAR | 3.0 BLOCKS

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This partnership program creates a cultural and language immersion opportunity for students at Lyndon Institute. For one week, students with no experience with the Spanish language, or with travel abroad, will immerse themselves in express-fluency Spanish courses. At the same time, they will research and learn about a partner school in Spain\*, as well as the area and issues facing the community. Then students will fly to Spain to visit the partner school and the community.

*\*Details will be announced shortly*

*\*Application, acceptance*

*\*Student fees: airfare*

## **VOICES OF THE PAST MADE PRESENT**

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STAHLER | 1.0 BLOCK

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This course will begin with a study of Vermont poet (and former poet laureate) Ellen Byrant Voigt's book *Kyrie*. Through a sequence of blank verse sonnets, *Kyrie* describes the experiences of residents in a small Northeast Kingdom community during the Spanish Flu pandemic of 1918. Both beautiful and terrifying, the poems are comprised mostly of letters of diary entries, through which we hear the voices of local characters as they try to make sense of the plague sweeping through their families and neighborhoods. The course will be interdisciplinary, embracing the spirit of the humanities, combining literature, history, and potentially even art and music, to tell a global story through a local perspective. The class will include both informal literary analysis, including a study of the sonnet's versatility, along with historical research as students attempt to uncover how a national or world event came to impact the Northeast Kingdom community. Students will then draw from their research to produce a collection of creative works that bring the voices of the past to life.

## **WATER AEROBICS**

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BUGBEE | 1.0 BLOCK

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Students will participate in water aerobics classes 3 or 4 times per week and will be learning about the benefits of water aerobics and the different types of water aerobics. Exploration of exercises and their target areas will be emphasized. Students will work in small groups to research, design, and lead a class.

## **WATER, THE NEXT OIL**

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WILLIAMS | 3.0 BLOCKS

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This 3 block course will investigate water from many angles; gas – liquid – solid; pollution to waste water treatment. We will study human uses of water and discuss water conservation. It will be inquiry-based with several class activities and field trips. The major goal of this course will be for students to teach others about the importance of clean water, which is one of the most important compounds on earth.

## **WHERE SHOULD WE VOLUNTEER?**

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BUGBEE | 1.0 BLOCK

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In groups of two or three, students will create an informational propaganda poster/visual about a non-profit organization. The groups will research two national and two local organizations and present their finding. As a class, the students will choose one or two of the local non-profits and arrange volunteer opportunities for the final week of January term.

## **WHO DO YOU THINK YOU ARE?**

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BIAS | 1.0 BLOCK

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This course will offer an introduction to basic genealogy research. We will examine multiple ways to trace family records and use the internet to trace our own genealogy to create a family tree. The final product will consist of a family tree, including photos, as well as a written narrative representing your findings.

## **WINTER OUTDOOR SKILLS & ECOLOGY**

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MANGES | 3.0 BLOCKS

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Through hands-on experience students will learn how to travel in the backcountry on snowshoes and touring skis using a topographical map and compass. GPS skills will also be taught. In addition, students will learn basic wilderness first-aid skills to handle any potential emergencies and will receive certification in Wilderness First Aid. Through research and field trips, students will learn about this region's winter ecology. Additional topics include leadership styles and communication skills, general gear use and repair.

## **WORKING TOWARD SUSTAINABILITY FOOD PRESERVATION AND THE LOCAVORE MOVEMENT**

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ANGELL | 3.0 BLOCKS

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Throughout most of human history, domestic-scale food preservation has been of vital significance. Today, as an alternative to industrially processed products, small-scale food preservation can play an integral role in sustaining locally based food systems. This course gives students the opportunity to investigate the history, theory, and practice of such traditional means of food preservation such as lactic fermentation, pickling, drying, salting, canning, and root cellar storage of seasonal products. Students will learn the fundamentals of preservation processes and the locavore movement through hands-on, in-class, and field based activities and experiences. Using the wisdom, resourcefulness, and traditions handed down through generations, students will work to become more sustainable and learn new things about the food and community they live in.

## **ZOMBIE APOCALYPSE: AN INVESTIGATION OF PAST, PRESENT, AND FUTURE PANDEMIC EVENTS**

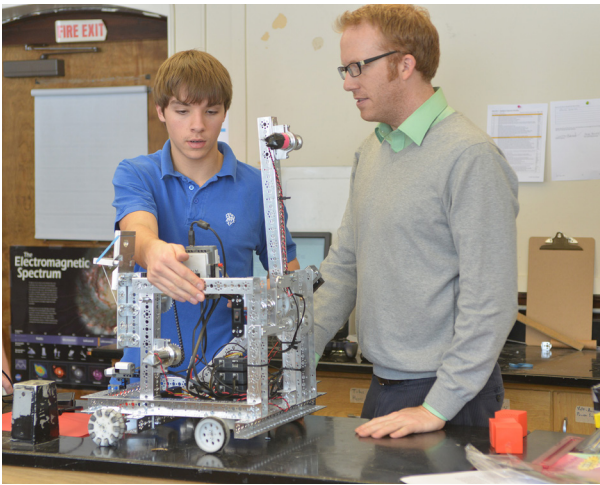
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POTTER | 3.0 BLOCKS

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Students will design explorations of past pandemic events and their effect on history and culture. They will also investigate the fields of virology and bacteriology with emphasis on pathogenic microorganisms. Current pandemics will be investigated as well, with an analysis of utilized resources and predictions of control/containment, students will 'design' a pandemic event and will investigate local resources to implement short- and long-term responses.

*\*Both biology and chemistry classes*



**CREATE** *New Opportunities!*



**DISCOVER** *Your Future!*



**MAKE** *New Friends!*



**EXPLORE** *The world around you!*