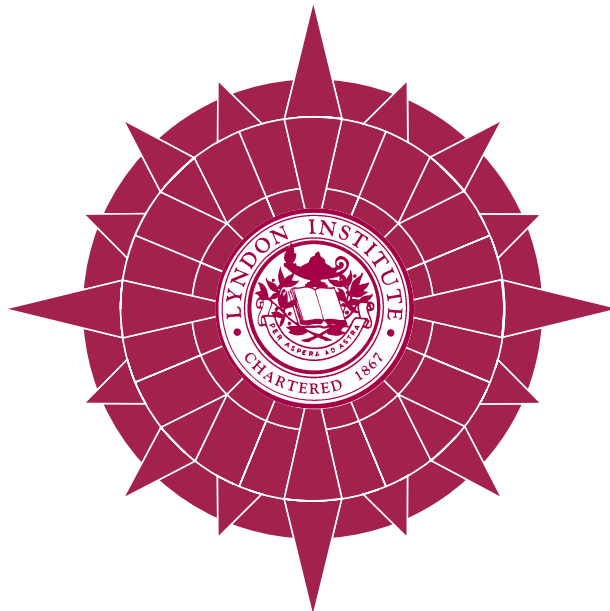


# Program of Studies



Lyndon  
I N S T I T U T E

## MISSION

Lyndon Institute is an academic community providing students with excellent preparation for success in school, college, careers, and life.

## PHILOSOPHY

The teachers and administrators of Lyndon Institute believe that learning is a process which continues throughout life, and that formal education should provide a sound basis for later development. We recognize that student interest and motivation are vital to educational success and therefore, school should be both a challenging and enjoyable experience for all concerned.

We believe that the primary obligation of the school is to help the student to discover academic, artistic, technological, and athletic aptitudes; to encourage the development of goals appropriate to such aptitude; and to aid in developing the goals for the betterment of one's self and one's community.

## OBJECTIVES

- ▶ To provide a sound education in the academic knowledge and skills fundamental to our society and in the basic process of clear thinking;
- ▶ To offer an opportunity to acquire knowledge and develop skills appropriate to chosen careers, whether of an academic or technological nature;
- ▶ To encourage personal development, including development of the student's respect and concern for self and others, and development of a sense of social responsibility through community service;
- ▶ To provide a variety of opportunities for emotional and physical development.



Revised September 2009. Course offerings subject to change.

## GENERAL INFORMATION

Advisor/Advisee System	2
Equal Opportunity Policy	4
Extracurricular Activities	3, 4
Grading System	1
Graduation Requirements	1
Health Services	2
Honor Roll	1
Immunization Policy	3
Incomplete Grades	2
Library	2
Mid-Year and Final Exams	1
National Honor Society	2
Progress Reports	2
Promotion	1
Report Cards	1
Scheduling/Schedule Changes	2
Sequencing Plans	1
Student Services	3

## ACADEMIC OFFERINGS

<b>English Courses/Sequences</b>	5
<i>AP English Language and Composition</i>	6
<i>AP English Literature</i>	6
<i>American Literature Honors</i>	6
<i>Applied English 1, 2, 3, 4</i>	6, 7
<i>Communications</i>	7
<i>Contemporary Literature: Fiction</i>	7
<i>Contemporary Literature: Non-Fiction</i>	8
<i>Creative Writing: Poetry</i>	8
<i>Creative Writing: Prose</i>	8
<i>English 1</i>	8
<i>English 1 Honors</i>	8
<i>English 2</i>	9
<i>English 2 Accelerated</i>	9
<i>English Literature Honors</i>	9
<i>Fantasy Literature</i>	9
<i>Science Fiction Literature</i>	9
<i>Writing and the Workplace</i>	10
<b>ESOL Courses/Sequences</b>	11
<i>ESOL Composition and Communication 1, 2</i>	12
<i>ESOL Literature 1, 2</i>	12
<b>Mathematics Courses/Sequences</b>	13
<i>AP Calculus AB, BC</i>	14
<i>Algebra 1 Honors</i>	14
<i>Algebra 1, Part 1, 2</i>	14
<i>Algebra 2 Honors</i>	15
<i>Algebra 2, Part 1, 2</i>	15
<i>Applied Math 1, 2</i>	15
<i>Business Math</i>	16
<i>Consumer Math</i>	16
<i>Geometry</i>	16
<i>Geometry Honors</i>	16
<i>Introduction to Geometry</i>	17
<i>Pre-Algebra Part 1, 2</i>	17
<i>Pre-Calculus</i>	17
<i>Technical Math</i>	17

<b>Science Courses/Sequences</b> . . . . .	19	<i>Dance 1, 2</i> . . . . .	32	<b>Business Technology</b>	
<i>AP Chemistry</i> . . . . .	20	<i>Dance Company</i> . . . . .	32	<i>Accounting</i> . . . . .	49
<i>AP Environmental Science</i> . . . . .	20	<i>Dance History</i> . . . . .	33	<i>Business Math</i> . . . . .	16
<i>AP Physics</i> . . . . .	20	<i>Design</i> . . . . .	33	<i>Introduction to Business</i> . . . . .	51
<i>Advanced Biology Honors</i> . . . . .	20	<i>Fashion Design</i> . . . . .	33	<i>Microeconomics</i> . . . . .	26
<i>Anatomy and Physiology</i> . . . . .	20	<i>Graphic Arts</i> . . . . .	33	<i>Writing and the Workplace</i> . . . . .	10
<i>Animal Science</i> . . . . .	20	<i>Group Saxophone Class</i> . . . . .	33	<b>Computer Science</b>	
<i>Applied Biology</i> . . . . .	21	<i>Group Trombone Class</i> . . . . .	34	<i>Computer Applications</i> . . . . .	50
<i>Applied Freshman Science</i> . . . . .	21	<i>Improvisation 1, 2</i> . . . . .	34	<i>Computer Programming</i> . . . . .	50
<i>Biology</i> . . . . .	21	<i>Improvisation and Composition</i> . . . . .	34	<b>Cooperative Education</b>	
<i>Biology Honors</i> . . . . .	21	<i>Instrumental Lessons</i> . . . . .	34	<i>Cooperative Education</i> . . . . .	50
<i>Chemistry</i> . . . . .	21	<i>Introduction to Fashion Design</i> . . . . .	35	<b>Graphic Arts</b>	
<i>Chemistry Honors</i> . . . . .	21	<i>Introduction to Studio Art</i> . . . . .	35	<i>Graphic Arts</i> . . . . .	51
<i>Environmental Studies</i> . . . . .	22	<i>Introduction to Theater</i> . . . . .	35	<b>Human Services</b>	
<i>Freshman Science</i> . . . . .	22	<i>Jazz Band</i> . . . . .	35	<i>Human Services Careers</i> . . . . .	51
<i>Horticulture</i> . . . . .	22	<i>Jazz Dance</i> . . . . .	35	<b>Manufacturing &amp; Construction</b>	
<i>Introduction to Exercise Science</i> . . . . .	22	<i>Lyrical Ballet</i> . . . . .	36	<i>Introduction to Precision Machining</i> . . . . .	51
<i>Physics</i> . . . . .	22	<i>Music Theory 1, 2</i> . . . . .	36	<i>Introduction to Welding 1, 2</i> . . . . .	52
<i>Physics Honors</i> . . . . .	22	<i>Painting</i> . . . . .	36	<i>Introduction to Woodworking</i> . . . . .	52
<i>Vermont Ecology</i> . . . . .	22	<i>Photography</i> . . . . .	36	<i>Precision Machining</i> . . . . .	52
		<i>Piano</i> . . . . .	36	<i>Welding/Metal Fabrication 1, 2</i> . . . . .	53
<b>Social Studies Courses/Sequences</b> . . . . .	23	<i>Printmaking and Drawing 1, 2</i> . . . . .	37	<b>Technical Drafting</b>	
<i>AP European History</i> . . . . .	24	<i>Select Choral Ensemble</i> . . . . .	37	<i>Architectural Drafting 1, 2</i> . . . . .	49
<i>AP U.S. History</i> . . . . .	24	<i>Theater Design and Production</i> . . . . .	37	<i>Basic Drafting</i> . . . . .	50
<i>American Women's History</i> . . . . .	24	<i>Vocal Lessons</i> . . . . .	37	<i>Pre-Engineering Graphics</i> . . . . .	52
<i>Applied U.S. History</i> . . . . .	24	<b>Health &amp; Physical Education</b>		<i>Technical Drafting 1, 2</i> . . . . .	53
<i>Applied World Geography</i> . . . . .	24	<b>Courses/Sequences</b> . . . . .	39	<b>SPECIAL EDUCATION</b>	
<i>Applied World History</i> . . . . .	25	<i>Comprehensive Health Education</i> . . . . .	40	<b>COURSES/SEQUENCES</b> . . . . .	55
<i>Art History</i> . . . . .	25	<i>Freshman Physical Education</i> . . . . .	40	<i>Community-Based Training</i> . . . . .	56
<i>Asian Studies</i> . . . . .	25	<i>Introduction to Exercise Science</i> . . . . .	40	<i>Practical Biology</i> . . . . .	56
<i>Civics and Constitutional Law</i> . . . . .	25	<i>Introduction to the Outdoors</i> . . . . .	40	<i>Practical English</i> . . . . .	56
<i>Contemporary American History Honors</i> . . . . .	25	<i>Lifetime Wellness</i> . . . . .	40	<i>Practical Math</i> . . . . .	56
<i>Economics</i> . . . . .	26	<i>Personal Fitness</i> . . . . .	41	<i>Practical Social Studies</i> . . . . .	56
<i>Genocide and Human Rights</i> . . . . .	26	<i>Recreational Physical Education</i> . . . . .	41	<i>Remedial English</i> . . . . .	56
<i>Macroeconomics</i> . . . . .	26	<i>SWEAT</i> . . . . .	41	<i>Remedial Math</i> . . . . .	56
<i>Microeconomics</i> . . . . .	26	<i>Team and Individual Pursuits</i> . . . . .	41	<i>Remedial Reading</i> . . . . .	56
<i>Military History of the 20th Century</i> . . . . .	26	<i>VT Recreation Safety Certification</i> . . . . .	41	<b>RECOMMENDED COURSE</b>	
<i>Philosophy</i> . . . . .	27	<b>Foreign Language</b>		<b>SEQUENCES</b> . . . . .	57, 58
<i>Sociology</i> . . . . .	27	<b>Courses/Sequences</b> . . . . .	43	<b>SUPPLEMENTAL COURSEWORK</b>	
<i>U.S. History</i> . . . . .	27	<i>French 1, 2, 3, 4, 5</i> . . . . .	44	<b>AND PROGRAMS</b> . . . . .	59
<i>U.S. History Honors</i> . . . . .	27	<i>Japanese 1, 2, 3</i> . . . . .	44, 45	College Credit Courses at	
<i>Vermont History</i> . . . . .	27	<i>Latin 1, 2, 3, 4</i> . . . . .	45, 46	Lyndon State College . . . . .	59
<i>World Geography</i> . . . . .	28	<i>Spanish 1, 2, 3, 4</i> . . . . .	46	<i>Cynosure Yearbook</i> . . . . .	59
<i>World Geography Honors</i> . . . . .	28	<b>TECHNICAL EDUCATION</b>		<i>Driver Education</i> . . . . .	59
<i>World History</i> . . . . .	28	<b>COURSES/SEQUENCES</b> . . . . .	47, 48	<i>Student Aide Program</i> . . . . .	59
<i>World History Honors</i> . . . . .	28	<b>Allied Health</b>		<i>Work Experience</i> . . . . .	59
<b>Fine and Performing Arts</b>		<i>First Responder</i> . . . . .	50		
<b>Courses/Sequences</b> . . . . .	29, 30	<i>Licensed Nursing Assistant Program</i> . . . . .	52		
<i>AP Studio Art</i> . . . . .	31	<b>Automotive Technology</b>			
<i>Acting</i> . . . . .	31	<i>Automotive Technology 1, 2</i> . . . . .	49		
<i>Advanced Dance</i> . . . . .	31	<i>Introduction to Automotive Technology</i> . . . . .	51		
<i>Art History</i> . . . . .	31	<i>Physics</i> . . . . .	22		
<i>Art Honors</i> . . . . .	31	<i>Small Engine Repair</i> . . . . .	53		
<i>Basic Drafting</i> . . . . .	50	<i>Technical Math</i> . . . . .	17		
<i>Book Arts</i> . . . . .	31				
<i>Chorus</i> . . . . .	32				
<i>Concert Band</i> . . . . .	32				

## Graduation Requirements

---

Minimum graduation requirements include 22 credits. Distribution of credits is as follows:

English . . . . .	4
Mathematics* . . . . .	3
Science* . . . . .	3
Social Studies . . . . .	2
United States History . . . . .	1
Fine and Performing Arts* . . . . .	1
Physical Education* . . . . .	2
Health Education . . . . .	1/2
Electives . . . . .	5-1/2
Total . . . . .	22 credits

\* Equivalents:

Math or Science: A two-year sequence of one junior/senior technical course may be substituted for either a Math or Science credit. *Accounting* may be substituted for a Math credit.

Fine Arts: One year of *Basic Drafting* or *Graphic Arts* may count as a Fine Arts credit.

Physical Education: One semester of dance or one semester of *Introduction to Exercise Science* may count as 1/2 credit of P. E. Two completed seasons of sports (including cheer-leading) may count as 1/2 credit of P. E. Up to one credit of P. E. may be fulfilled with the above-mentioned courses or sports activities.

## Grading System

---

The following scale is used for grading:

	Numerical Average	Grade Points	
A+	97-100	4.33	Excellent
A	93-96	4.00	Excellent
A-	90-92	3.67	Excellent
B+	87-89	3.33	Above Average
B	83-86	3.00	Above Average
B-	80-82	2.67	Above Average
C+	77-79	2.33	Average
C	73-76	2.00	Average
C-	70-72	1.67	Average
D+	67-69	1.33	Below Average
D	65-66	1.00	Below Average
D-	60-64	0.67	Failing
F	less than 60	0.00	Failing
I			Incomplete

## Mid-Year and Final Exams

---

Mid-year exams are given at the end of each semester. Most courses have mid-year and final exams. Some courses give exams during class periods. Students remain in an exam for at least one hour and fifteen minutes.

The administration will judge the validity of an absence, deciding whether a student legitimately missed an exam or intentionally skipped a test. In either case, a separate exam in the form of an essay test will be prepared as a make-up. If it is determined that a student has intentionally skipped an exam, there will be an automatic deduction of one letter grade from the make-up exam.

Mid-year and final exams must be taken if a student is to receive credit for a course. If a student is absent, an 'incomplete' will be given as a grade until the test is made up. Incomplete exams must be made up in a timely manner. Failure to make up an exam will automatically result in failure of the course for the year, regardless of any other grades the student may have received.

## Promotion

---

All students must successfully complete a course in order to advance to the next level.

## Sequencing Plans

---

To get an idea of the paths of study that a student should follow to achieve certain objectives, such as acceptance at a highly competitive college or university, please refer to the Sequencing Plans at the end of the *Program of Studies*.

## Report Cards

---

Report cards are issued four times a year shortly after the end of each quarter (see academic calendar for specified dates).

## Honor Roll

---

The Honor Roll is calculated in the following manner:

**High Honors** is computed as no grade below B with an average of A- or better.

**Honors** is computed as no grade below B- with an average of B- or better.

## National Honor Society

---

Election to the *National Honor Society* is made by the Academic Council. Juniors and Seniors admitted to *National Honor Society* will be exemplary in character, scholarship, leadership, and service.

## Progress Reports

---

Notices of failing grades or other difficulties in course work are sent home during the marking period if it is felt necessary by faculty, and/or at the end of each grading period. Parents may contact teachers or the Student Services Office if they have questions about student progress. Messages may be left with personnel in the Main Office for teachers and/or staff to return calls.

## Incomplete Grades

---

All incomplete grades must be made up during the first week of the following marking period. If make-up work is not completed, a failing grade will be issued. Exceptions to the one-week policy must be granted by the administration.

## Advisor/Advisee System

---

All students are given an advisor who will provide extra support. Students are encouraged to actively seek advice in scholastic and school matters from their advisor.

## Scheduling and Schedule Changes

---

Students schedule for the next year in March and April. Parents should feel free to contact the Student Services Office with any questions. Students who fail classes for the entire year will be notified in June to make appropriate changes in their schedule.

Students are expected to choose their schedules carefully in the spring of the year. Course changes after June will be made only if there is available space in the course.

## Library

---

The library, located on the Darling Campus, is open weekdays from 7:30 a.m. to 4:00 p.m. and on designated evenings from 6:45 to 8:45 p.m. The collection includes a sizable fiction and nonfiction section, a reference department, newspapers, periodicals, microfilm, microfiche, art prints, and maps. A library skills unit is taken by all incoming freshmen and is coordinated with their social studies course.



## Health Services

---

Health services at Lyndon Institute are provided by a School Nurse in cooperation with local medical personnel. Students who become ill between the hours of 7:45 a.m. and 3:30 p.m. will see the nurse who will, with the help of the student, determine what measures should be taken. Parents will be notified whenever it is deemed necessary by school personnel.

All incoming freshmen, and new students who have no record of having a ninth grade screening, will be screened to comply with Vermont law. Vision, hearing, height, weight, blood pressure, immunization review, health issues, and scoliosis will be included in the screening. Students are encouraged to assume responsibility for their own health.

## Immunization Policy

---

Diseases that can be prevented by immunization are a hazard to the health of the community. Therefore, in accordance with the Vermont Immunization Law, all new entrants and transfer students shall be immunized before school entry unless exempt from immunization for medical, religious, or moral reasons. Students may be excluded from school for failure to comply with this policy. Further information is available from the school nurse.

## Student Services

---

The Lyndon Institute Student Services Office is available to every student. The goal of the office is to assist students in reaching their potential, achieving their goals, and becoming productive members of society. Services provided by the office include:

- Academic Counseling  
(program selection and scheduling)
- Career Counseling  
(vocational/technical training; employment)
- College Counseling
- Personal Counseling
- Testing
- Cumulative Records
- Maintaining an up-to-date Career Education Library
- Special evening presentations
- Orientation of new day students to Lyndon Institute
- Scheduling college admission representatives, career services speakers, and career awareness field trips



## Extracurricular Activities

---

Lyndon Institute offers opportunities for students to participate in more than forty sports, clubs and organizations.

### Clubs and Organizations

Some of the clubs and organizations which have been active in recent years include:

- Chess Club
- *Cynosure* (the LI yearbook)
- Dance Clubs
- Drama
- Environmental Club
- FBLA  
(Future Business Leaders of America)
- Forensics Team
- French Club
- *Janus* (the LI literary magazine)
- Latin Club
- SADD (Students Against Destructive Decisions)
- Scholars Bowl
- Skills USA



- Spanish Club
- Student Council
- Student Officers
- *The Viking Voice* (the LI student newspaper)
- Volunteer Club
- VTLSP (Vermont Teen Leadership Safety Program)
- Writer's Workshop



## Athletics

Lyndon Institute offers a variety of interscholastic sports at the Freshman, Junior Varsity, and Varsity levels:

Alpine Skiing	Boys & Girls
Baseball	Boys
Basketball	Boys & Girls
Cheerleading	Coed
Cross Country Running	Boys & Girls
Field Hockey	Girls
Football	Boys
Golf	Boys & Girls
Ice Hockey	CoEd
Nordic Skiing	Boys & Girls
Soccer	Boys & Girls
Softball	Girls
Track & Field	Boys & Girls



## Other Athletic Opportunities

### Volleyball Club

This club meets two days a week after school in the fall and competes against clubs from other schools throughout the fall sports season.



## Equal Opportunity Policy

It is the policy of Lyndon Institute not to discriminate on the basis of race, color, creed, national origin, marital status, sex, sexual orientation, age, or veteran's status in the provision and administration of its educational programs, activities, services, and access provided to the public, in accordance with applicable requirements of state and federal laws.

## ADVANCED COLLEGE PREP

*AP English Language & Composition* . . . 6  
*AP English Literature* . . . . . 6  
*American Literature Honors* . . . . . 6  
*English 1 Honors* . . . . . 8  
*English Literature Honors* . . . . . 9

## COLLEGE PREP

*Communications* . . . . . 7  
*Contemporary Literature: Fiction* . . . . . 7  
*Contemporary Literature: Non-Fiction* . . 8  
*Creative Writing: Poetry* . . . . . 8  
*Creative Writing: Prose* . . . . . 8  
*English 1* . . . . . 8  
*English 2* . . . . . 9  
*English 2 Accelerated* . . . . . 9  
*Fantasy Literature* . . . . . 9  
*Science Fiction Literature* . . . . . 9  
*Writing and the Workplace* . . . . . 10

## GENERAL EDUCATION COURSES

*Applied English 1, 2, 3, 4* . . . . . 6, 7

## GRADUATION REQUIREMENTS

4 years of English

## PHILOSOPHY

Members of the English faculty strive to present exciting, thought-provoking literature to students of all interests and abilities, and to guide writers toward developing skills which will enhance clarity and style. LI students are actively encouraged to understand and practice communication skills and self-exploration through reading, analyzing, researching, writing, and listening. Great literature begins with great writing, and opportunities abound for students to write, publish, recite, and compete.

## CLASSROOM CLIMATE

Students in LI English classes will find teachers who employ a variety of techniques for presenting material of interest. Every written medium is used (books, classics, journals, letters, magazines, newspapers, plays, poetry, technical manuals) to illustrate the need for superior literacy skills today. Students are expected to turn in homework on time, use the library well, and work to improve vocabulary, grammar, spelling and proofreading skills. Exploration of humanities themes is central to required readings in some classes, expanding students' perceptions of the world.

## ENGLISH COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>English 1 Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>American Literature Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>English Literature Honors</i></li> <li>• <i>American Literature Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP English Language &amp; Comp.</i></li> <li>• <i>AP English Literature</i></li> <li>• <i>English Literature Honors</i></li> <li>• <i>American Literature Honors</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>English 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>English 2 Accelerated</i></li> <li>• <i>English 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Communications</i></li> <li>• <i>Contemporary Lit: Fiction</i></li> <li>• <i>Contemporary Lit: Non-Fiction</i></li> <li>• <i>Creative Writing: Poetry</i></li> <li>• <i>Creative Writing: Prose</i></li> <li>• <i>Fantasy Literature</i></li> <li>• <i>Science Fiction Literature</i></li> <li>• <i>Writing and the Workplace</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Communications</i></li> <li>• <i>Contemporary Lit: Fiction</i></li> <li>• <i>Contemporary Lit: Non-Fiction</i></li> <li>• <i>Creative Writing: Poetry</i></li> <li>• <i>Creative Writing: Prose</i></li> <li>• <i>Fantasy Literature</i></li> <li>• <i>Science Fiction Literature</i></li> <li>• <i>Writing and the Workplace</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Applied English 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Applied English 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Applied English 3</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Applied English 4</i></li> </ul>



**AP English Language and Composition***Advanced College Prep*

The course is the equivalent of an introductory college writing course, designed to prepare advanced students for the writing tasks they will encounter in college. Students read and analyze essays and books by a broad range of contemporary prose masters, learning rhetorical strategies that contribute to a persuasive argument. Students are encouraged to find their own unique voices and develop individual writing styles that exemplify proper usage, as well as develop research skills that enable a smooth transition to college work. Texts include college level anthologies, cutting-edge personal essays, creative nonfiction, and examples of investigative reporting. Students are expected to take the Advanced Placement Exam in English Language and Composition at the end of the course.

Grade: 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite:  
*English Literature Honors*

**AP English Literature***Advanced College Prep*

This course is for seniors who wish to continue their study of great literature and deepen their analytical skills. *AP English Literature* will include many important works from the Classical world, while expanding to incorporate later classics from the Western tradition. Likely authors include Homer, Sophocles, Plato, and Ovid, as well as Dante, Goethe, Kafka, Dostoyevsky, and Ibsen. Students who take *AP English Literature* are expected to take the AP English exam in the spring. Of course, students who intend to major in English at the college level are encouraged to take both *AP English Literature* and *AP English Language*.

Grade: 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite:  
*English Literature Honors*

**American Literature Honors***Advanced College Prep*

In this survey course of American literature, students are expected to participate in discussions, take extensive lecture notes, and write essays on the work studied. In addition, weekly vocabulary drills are practiced in preparation for taking the PSAT or SAT.

Grade: 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *English 1 Honors*,  
*English 2 Accelerated*, or  
*English 1* with  
 teacher recommendation

**Applied English 1**

This course concentrates on basic language arts skills such as reading, basic grammar, writing, speaking, listening, and spelling. It is intended for students who have difficulty with language arts or are working below grade level. Particular attention is paid to: reading comprehension; determining main ideas and details; understanding sentence and paragraph structure, punctuation, and grammar; organizational skills, outlining, and following directions; library skills; creative writing; completing forms and writing resumés; and vocabulary development.

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of  
 the 8th grade English teacher  
 and Student Services

## Applied English 2

Grade: 10  
Course length: 1 year  
Credit: 1  
Prerequisite: Recommendation of the *Applied English 1* teacher and Student Services

*Applied English 2* is a continuation of *Applied English 1*, designed to further strengthen general skills in the language arts, including reading comprehension, writing proficiency, vocabulary, and oral expression. Students are exposed to a range of literature, from classics to contemporary works, short stories to novels. Students engage in weekly vocabulary development exercises drawn from their own reading, maintain journals, practice basic skills in grammar and punctuation, and construct compositions that connect to class readings.

## Applied English 3

Grade: 11  
Course length: 1 year  
Credit: 1  
Prerequisite: Recommendation of the *Applied English 2* teacher

This course enhances reading and writing skills both to develop an appreciation of literature and gain the skills needed to succeed in the workforce. In this course, students practice using language effectively both in written and oral communication. Emphasis is placed upon improving reading competency and comprehension. Students work to build a stronger and more dynamic vocabulary, master the free-writing and revision processes, and finally develop a sense of personal responsibility for their own success.

## Applied English 4

Grade: 12  
Course length: 1 year  
Credit: 1  
Prerequisite: Recommendation of the *Applied English 3* teacher

In this course students develop the ability and confidence to use language successfully as a tool in everyday life. Students learn how to make written and oral presentations, create resumes, fill out applications, set up and take part in interviews, write reports and news stories, and follow and give directions. Reading comprehension and basic literacy skills such as word analysis, spelling, punctuation and good writing are practiced.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3* with teacher recommendation

## Communications

This one-semester course focuses on public speaking, effective communication, and media studies. Its objective is to give students the basic skills needed for successful oral presentations, formal speeches, and announcements. Through games, class activities, written assignments, presentations, as well as newspaper, magazine, and film studies, this class helps students improve intercommunication and address the many fears connected with public speaking.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3* with teacher recommendation

## Contemporary Literature: Fiction

This one-semester course utilizes modern short stories, novels, and poetry to stimulate and expand the student's interest in reading and analyzing modern fiction. Popular imaginative works are employed to get students thinking and expressing themselves regarding important issues. In their written responses, students learn how to communicate with confidence using proper English. Grammar and usage are taught both systematically and in the context of written student responses.

**Contemporary Literature: Non-Fiction***College Prep*

This is a one-semester course that familiarizes students with creative non-fiction in the form of personal essay, memoir, and well-researched popular books of high interest. Writing assignments derive from readings. Readings lead students to self-reflection and the value of reading as a life-long skill. Practical lessons in grammar and usage arise from student writing as well as more formal, programmed instruction.

Grade: 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3* with teacher recommendation

**Creative Writing: Poetry***College Prep*

This one-semester course concentrates on developing style and skill in the art of verse through various exercises and concentrated study of accomplished poets. Writing in both a personal journal and a class notebook is required. Oral presentations for constructive criticism are an important part of the class. Most of the course is concerned with generating original and creative works, but periodically students will be asked to bring a substantial piece to polished completion.

Grade: 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3* with teacher recommendation

**Creative Writing: Prose***College Prep*

This one-semester course is designed to both strengthen the student's writing skills and develop his or her creativity. Throughout the semester, students will explore both the personal essay (creative nonfiction) and the short story. In addition to teacher-led discussions and readings, students will share their work on a regular basis, hone their writing skills through peer editing, learn how to critique a creative work, and engage in a variety of writing exercises designed to stimulate their creativity.

Grade: 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3* with teacher recommendation

**English 1***College Prep*

The primary focus of this course is to learn the basic tools of writing. This is approached through the study of grammar, vocabulary, sentence structure, mechanics, organization, and by practicing the skills learned in daily journal writing. Reading and speaking skills are also emphasized. Reading of selected novels and plays is required.

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of 8th grade teacher

**English 1 Honors***Advanced College Prep*

This course is for students who have displayed exceptional ability and motivation. The major emphasis is on written composition with expository writing receiving the greatest attention. Novels, plays, and poetry serve as the foundation of literature, as well as providing the students with samples of good writing. Vocabulary is an integral part of the course. Oral presentations of written compositions enhance speaking and writing skills. A daily journal is kept by each student.

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of the 8th grade teacher and Student Services

## College Prep

Grade: 10  
Course length: 1 year  
Credit: 1  
Prerequisite: *English 1*  
and recommendation  
of Student Services

## English 2

*English 2* emphasizes further development of reading and writing skills introduced in *English 1*. Students read and respond to assigned short stories, novels, personal essays, screenplays, drama, and films. Proper grammar and usage are emphasized in the context of written responses. Writing is treated as a thinking and communication skill with direct application to school work and post-secondary school success. Students are encouraged to share views both through writing and participation in classroom discussion.

## College Prep

Grade: 10  
Course length: 1 year  
Credit: 1  
Prerequisite: *English 1*  
with teacher recommendation

## English 2 Accelerated

This course presents a more challenging environment than *English 2*, with a more sophisticated reading list across the genres of fiction, poetry, non-fiction, and drama. Students participate in class discussions, write papers, and make oral presentations. Vocabulary growth and grammar study are integrated in the course. Students also exercise creativity through poetry, stories, and personal essays. The goal of this course is to prepare students who did not start out in *English 1 Honors* to make the transition to *American Literature Honors*.

## Advanced College Prep

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite:  
*American Literature Honors*

## English Literature Honors

Beginning with the Anglo-Saxon period and ending with the 20th century, this course is designed to improve students' critical thinking and writing skills through a study of English (British) literature. Class time is primarily discussion-oriented, initiated by daily reading questions and occasional cooperative learning exercises. Emphasis is placed on close-reading skills (i.e., analyzing specific passages of text). Students learn the characteristics of literary conventions such as epic, tragedy, satire, and lyric poetry. Emphasis is placed on understanding and applying literary concepts such as theme, symbol, metaphor, and archetype. Students also learn the principle stylistic and philosophical influences at work during each literary age and how these elements change over time.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3*  
with teacher recommendation

## Fantasy Literature

The *Fantasy Literature* course focuses on the history of the genre and its roots in fairy tales to build a definition for an understanding of the term "fantasy." Both early and modern works such as *The Hobbit*, *The Lost World*, and *A Wizard of Earthsea* will be used in conjunction with short stories. Class discussions, creative writing assignments, and weekly vocabulary help students gain an understanding of the themes and ideas of this type of literature.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *English 2, English 2 Accelerated, American Literature Honors, or Applied English 2 or 3*  
with teacher recommendation

## Science Fiction Literature

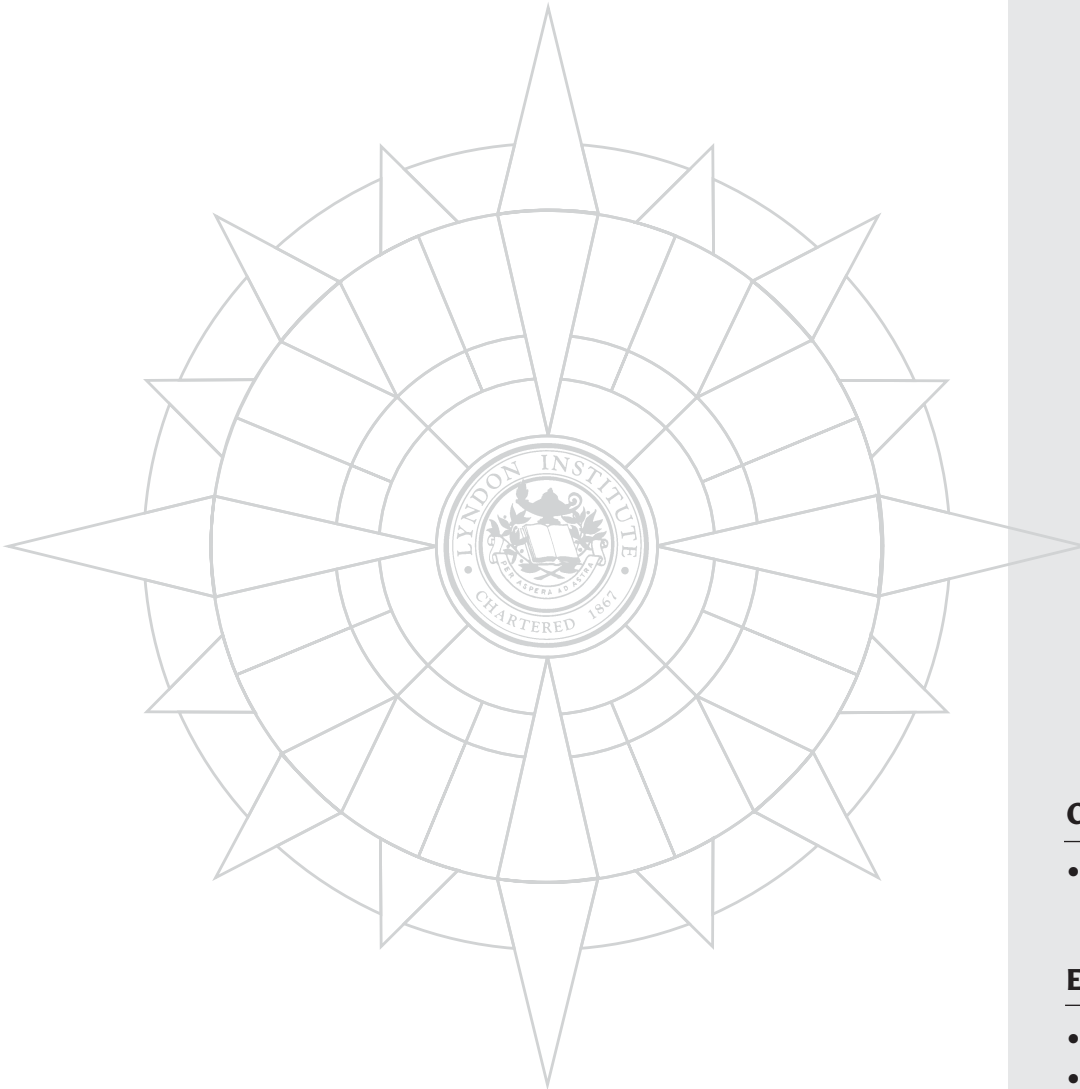
In *Science Fiction Literature* students explore the concept of the "improbable becoming possible." Books such as *Ender's Game*, *The Illustrated Man*, and *The Island of Dr. Moreau* are used with current articles to encourage critical thinking about the society in which we live and its future. Class discussions, creative writing assignments, and weekly vocabulary help students gain an understanding of the themes and ideas of this genre of literature.

## Writing and the Workplace

This course is designed for juniors and seniors enrolled in or considering technical classes in high school and beyond. It provides the opportunity to develop writing skills that will prove necessary in both academic and career settings. Different types of writing are practiced, such as persuasive and procedure pieces, narratives and reports, abstracts and appendices, manuals, brochures, newsletters, trade journal articles, minutes, and correspondence. An understanding of voice and audience is also an objective of the course. The class follows in the Writing Workshop model.

### College Prep

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: None



## Other Opportunities in English

### Competitions

- University of Vermont Excellence in Writing Contest

### Extracurricular Opportunities

- *Janus* (the LI literary magazine)
- *Cynosure* (the LI yearbook)
- Poetry Readings
- Forensics
- Writers Workshop

*ESOL Composition and Communication 1* . . . . . 12  
*ESOL Composition and Communication 2* . . . . . 12  
*ESOL Literature 1* . . . . . 12  
*ESOL Literature 2* . . . . . 12

## GRADUATION REQUIREMENTS

ESOL courses as needed, depending on proficiency in English.

## PHILOSOPHY

The Lyndon Institute ESOL program provides a comprehensive curriculum that ensures the English Language Learner (ELL) will achieve success in the four areas of language acquisition: reading, writing, speaking, and listening. Each ELL will develop competency in understanding spoken English, using grammatically correct English to express social and academic needs, and in organizing and clearly expressing his or her ideas in written English. It is the intent of the program that each student will be completely mainstreamed into the Lyndon Institute curriculum by their third year. The program prepares each student for a successful university career by providing a college counselor specifically tailored to the needs of the ELL. The small classroom settings ensure that each student will be given the tools to excel academically, personally, and socially.

## CLASSROOM CLIMATE

Smaller classes provide students with the appropriate environment to develop their use of English in conjunction with their existing comprehension and expression skill levels. As students are grouped according to ability (beginning, intermediate, or advanced), they are expected to actively and fully participate in every class lesson with the intent of entering the mainstream curriculum.



*ESOL class field trip to Plymouth Plantation, Massachusetts*

## ESOL COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>Comp. &amp; Comm. 1</i></li> <li>• <i>Literature 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Comp. &amp; Comm. 1</i></li> <li>• <i>Literature 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Comp. &amp; Comm. 2</i></li> <li>• <i>Literature 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Comp. &amp; Comm. 2</i></li> <li>• <i>Literature 2</i></li> </ul>

### ESOL Composition and Communication 1

The main topics to be covered include researching, writing, and orally presenting materials in the ESOL classroom. Students will work collaboratively with classmates to improve, utilize, and adapt language skills for everyday use and will follow a detailed, step-by-step approach to the writing process. They will improve their grammar and punctuation and build more cohesive and informative sentence structure as they experience and gain practice in several types of essay writing: narrative, comparative, persuasive, and cause-and-effect.

Grade: 9, 10  
Course length: 1 year  
Credit: 1  
Prerequisite:  
SLEP and teacher recommendation

### ESOL Composition and Communication 2

This course is a continuation of *ESOL Composition and Communication 1* with an emphasis on reading comprehension, writing, and oral communications. Using weekly writing assignments and daily speaking exercises, advanced English language learners will be prepared to enter the mainstream English curriculum following this course.

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *ESOL Composition and Communication 1* or SLEP and teacher recommendation

### ESOL Literature 1

This course is for the beginning-to-intermediate student and employs a variety of reading, speaking, listening, and writing activities and assignments, using an ESOL level-appropriate text book, grammar, and writing journals, as well as primary texts such as Dickens' *A Christmas Carol*, Shakespeare's *Romeo and Juliet*, and the works of poets such as Frost, Poe, and Browning. Effective study skills, note-taking, and grammar points will be stressed.

Grade: 9, 10  
Course length: 1 year  
Credit: 1  
Prerequisite:  
Placement based on SLEP

### ESOL Literature 2

This class is for the intermediate-to-advanced ESOL student. While speaking, listening, reading, and writing continue to be stressed, the *ESOL Literature 2* course uses short stories, plays, memoirs, biographies, and novels without the use of a textbook. Students will keep weekly writing journals, present projects orally to their classmates, contribute to a dormitory newsletter, and continue to refine their writing and speaking skills.

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite:  
Placement based on SLEP

## ADVANCED COLLEGE PREP

*AP Calculus AB* ..... 14  
*AP Calculus BC* ..... 14  
*Algebra 1 Honors* ..... 14  
*Algebra 2 Honors* ..... 15  
*Geometry Honors* ..... 16

## COLLEGE PREP

*Algebra 1, Part 1, 2* ..... 14  
*Algebra 2, Part 1, 2* ..... 15  
*Geometry* ..... 16  
*Pre-Algebra, Part 1, 2* ..... 17  
*Pre-Calculus* ..... 17  
*Technical Math* ..... 17

## GENERAL EDUCATION COURSES

*Accounting* ..... 47  
*Applied Math 1, 2* ..... 15  
*Business Math* ..... 16  
*Consumer Math* ..... 16  
*Introduction to Geometry* ..... 17

## GRADUATION REQUIREMENTS

3 credits in Mathematics

## PHILOSOPHY

The mathematics faculty at Lyndon Institute believe that the key to success in math is in establishing a solid foundation. This conservative approach has continued to achieve remarkable results with students of all abilities. We are dedicated to teaching math concepts in stages which are logical and accessible to each individual student. The focus is on achieving success one concept at a time, one process at a time, from simple to advanced to complex as the student matures and develops academically.

## CLASSROOM CLIMATE

Members of the math faculty agree that the study of mathematics requires rigorous discipline for all students to achieve success. Homework is consistently given and reviewed, for in practice lies proficiency. Students must be attentive in class. The math faculty's commitment to providing a well-rounded foundation in math to all students is based on mutual respect. We do all that we can to enable each student to attain his or her goals whatever the chosen course. In turn, we expect students to make every effort to acquire the skills they need for success.

## MAXIMUM PASSING GRADE

The minimum passing grade shall be C- to advance to the next level of sequenced courses.

## MATHEMATICS COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>Geometry Honors</i></li> <li>• <i>Geometry Honors</i></li> <li>• <i>Algebra 1 Honors</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Algebra 2 Honors</i></li> <li>• <i>Algebra 2, Part 1, 2</i></li> <li>• <i>Geometry Honors</i></li> <li>• <i>Geometry Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP Calculus AB</i></li> <li>• <i>Pre-Calculus</i></li> <li>• <i>Algebra 2 Honors</i></li> <li>• <i>Algebra 2 Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP Calculus BC</i></li> <li>• <i>AP Calculus AB</i></li> <li>• <i>AP Calculus AB</i></li> <li>• <i>AP Calculus AB</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Algebra 1, Part 1, 2*</i></li> <li>• <i>Pre-Algebra, Part 1, 2*</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Geometry*</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> <li>• <i>Technical Math</i></li> <li>• <i>Intro to Geometry</i></li> <li>• <i>Intro to Geometry</i></li> <li>• <i>Intro to Geometry</i></li> <li>• <i>Consumer Math</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Algebra 2, Part 1, 2</i></li> <li>• <i>Geometry</i></li> <li>• <i>Intro to Geometry</i></li> <li>• <i>Technical Math</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> <li>• <i>Algebra 1, Part 1, 2</i></li> <li>• <i>Consumer Math</i></li> <li>• <i>Business Math</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Pre-Calculus</i></li> <li>• <i>Algebra 2, Part 1, 2</i></li> <li>• <i>Technical Math*</i></li> <li>• <i>Business Math*</i></li> <li>• <i>Geometry</i></li> <li>• <i>Algebra 2, Part 1, 2</i></li> <li>• <i>Technical Math</i></li> <li>• <i>Business Math</i></li> <li>• <i>Technical Math</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Applied Math 2</i></li> <li>• <i>Applied Math 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Pre-Algebra, Part 1, 2</i></li> <li>• <i>Applied Math 2</i></li> </ul>	<ul style="list-style-type: none"> <li>* <i>See above for choices</i></li> <li>• <i>Pre-Algebra, Part 1, 2</i></li> </ul>	<ul style="list-style-type: none"> <li>* <i>See above for choices</i></li> <li>• <i>Consumer Math</i></li> </ul>

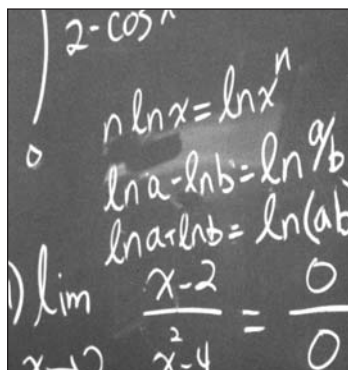


## AP Calculus AB

*Advanced College Prep*

The college-level course continues the study of math covered in *Algebra 2 Honors* and *Geometry Honors* and gives the student a thorough introduction into the field of calculus. Topics include a review of algebra, plane analytic geometry, trigonometry, and work with determinants, polar and parametric equations. About two-thirds of the year is devoted to presenting and working with basic concepts and ideas of calculus and its applications.

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: B's in *Geometry Honors* and *Algebra 2 Honors*, and/or permission of instructor, or by testing



## AP Calculus BC

*Advanced College Prep*

This course is a continuation of *AP Calculus AB*. It includes techniques and applications of integration, indeterminate forms and improper integrals, sequences, and series.

Grade: 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *AP Calculus AB* and/or permission of instructor, or by testing

## Algebra 1 Honors

*Advanced College Prep*

Students in this course must have the ability to grasp mathematical concepts readily and be willing to work especially hard. Students will be dropped from the *Algebra Honors* sequence if their average drops below 75 at any time. The course consists of the study of algebra through algebraic operation, equations and inequalities, products and factors, algebraic fractions, fractional equations, equations, equations in two variables, and graphing.

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of the 8th grade teacher and permission of the instructor, or by testing

## Algebra 1, Part 1\*

*College Prep*

In this beginning algebra course, topics covered include order of algebraic operations, work with polynomials (addition, subtraction, multiplication, and division), equations, inequalities, factoring, and rational expressions. The course is designed to prepare capable students for math work in college.

Grade: 9, 10, 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite: Recommendation of the 8th grade teacher and permission of the department, a C- in *Pre-Algebra, Part 2*, or by testing

## Algebra 1, Part 2\*

*College Prep*

This course continues the study of algebra begun in *Algebra 1 Part 1*. Topics include review of *Algebra 1*, literal equations, formulas, rational equations, laws of exponents and quadratic equations, graphing, simple systems of equations, and word problems.

Grade: 9, 10, 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite: C- in *Algebra 1, Part 1*, or by testing

*continued*

\* Can be substituted for *Business Math* as a prerequisite for Accounting and Technical courses.

## ***Advanced College Prep***

Grade: 10, 11  
Course length: 1 year  
Credit: 1  
Prerequisite: B in *Algebra 1 Honors* and *Geometry Honors* or A in *Algebra 1* and *Geometry*

## **Algebra 2 Honors**

*Algebra 2 Honors* is designed for the very able math student who is preparing to use mathematics in college science, engineering, or a technical field. Students continue study begun in *Algebra 1 Honors*, including a review, logarithms, complex numbers, further work in quadratics, quadratic systems, conic sections, sequences, binomial theorem, and determinants.

## ***College Prep***

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: C- in *Algebra 1, Part 2*, or by testing

## **Algebra 2, Part 1\***

This course continues the study of algebra begun in *Algebra 1*. Topics include review of *Algebra 1*, equations, literal equations, formulas, inequalities, rational equations, laws of exponents and radicals, quadratic equations, graphing, systems of equations in 2 or 3 variables, and word problems.

\* Can be substituted for *Business Math* as a prerequisite for Accounting and Technical courses.

## ***College Prep***

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: C- in *Algebra 2, Part 1*

## **Algebra 2, Part 2**

Continues study of *Algebra 2, Part 1*. Topics include: statistics and probability, logarithms, and trigonometry.

Grade: 9  
Course length: 1 year  
Credit: 1  
Prerequisite: The ability to add, subtract, multiply, and divide

## **Applied Math 1**

This course endeavors to develop within each student a higher level of proficiency in the fundamental math skills. The student is encouraged to think clearly and develop a full understanding of mathematical concepts. Included in the subject matter is a review of whole numbers and a study of fractions, decimals, and an introduction to percents (if time allows).

Grade: 9, 10  
Course length: 1 year  
Credit: 1  
Prerequisite: Proficiency in fractions and decimals, or successful completion of *Applied Math 1*

## **Applied Math 2**

The course objectives are the same as in *Applied Math 1*. Course content includes review of fractions and decimals, the study of percents, informal geometry, square root, negative numbers (if time allows), ratio, and proportion.

## Business Math

*Business Math* has value both for the consumer and the person in business. The beginning units develop the fundamental principles and operations through a study of problems faced by every individual in his or her daily life, including personal money records, banking transactions, buying for personal and household needs, and personal financing. The principles and processes developed in the beginning units are then applied in subsequent units dealing with savings and investments, home ownership, transportation, taxes and in units of various types of business enterprise, including problems of the small business person or farmer.

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: C- in *Consumer Math*  
 or *Pre-Algebra, Part 1*

## Consumer Math

Students develop everyday consumer math skills. The emphasis is placed on achieving proficiency in practical consumer skills, such as measurement, shopping, traveling, investments, use of credit and personal income. Manipulative activities are geared toward everyday survival skills.

Grade: 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion  
 of *Applied Math 2* or  
*Pre Algebra, Part 1* or 2

## Geometry

The study of geometry offers students the opportunity to develop a logical way of thinking, to develop a systematic means of problem solving, to apply previously learned material, and to gain an appreciation of the uses and applications of geometry. Studies include analyzing and constructing plane geometric figures and using deductive and inductive reasoning to prove theorem. Once proven, the theorems are used to solve practical problems relating to angles, triangles, quadrilaterals, polygons, parallel lines, circles, similarity, and various other measuring topics.

### College Prep

Grade: 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: A in *Algebra 1, Part 2*

## Geometry Honors

This course covers the same material as *Geometry*, but at an accelerated rate. The last two marking periods cover plane trigonometry.

*continued*

### Advanced College Prep

Grade: 9, 10  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: B in *Algebra 1 Honors*  
 or A in *Algebra 1* plus  
 recommendation of instructor

## Introduction to Geometry

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: C- in Pre-Algebra Part 2

Topics covered include the language of geometry (points, lines, planes, and angles), simple proofs, parallel and perpendicular lines, lines in the coordinate plane, triangles and quadrilaterals, congruent triangles and transformations, proportion and similarity, Pythagorean theorem, polygons and area, surface area, and volume. *Geometry Sketchpad* and computer applets are used in a few lessons to improve students understanding. Some hands-on activities using manipulatives will also be included to help students better understand three dimensional concepts.

## College Prep

Grade: 9, 10, 11  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: Recommendation of the 8th grade teacher, or C- in *Applied Math 2*

## Pre-Algebra, Part 1

The course topics include signed numbers, algebraic operations with equations using fractions, decimals, percents, perimeter, and areas of basic geometric figures.

## College Prep

Grade: 9, 10, 11  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: Recommendation of the 8th grade teacher or C- in *Pre-Algebra, Part 1*

## Pre-Algebra, Part 2

The course topics include properties of exponents as they deal with products and factors and simple linear equations and factoring.

## College Prep

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Geometry* and *Algebra 2*

## Pre-Calculus

The college-level course continues the study of math covered in *Geometry* and *Algebra 2*. The course gives the students a thorough analysis in the field of functions. About one half of the year is devoted to presenting and working with graphing calculators and data analysis. *Trigonometry* is also extensively covered.

## College Prep

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: C- in *Pre-Algebra, Part 2*

## Technical Math

This course gives students a better understanding and working knowledge of math skills necessary in technology courses and related careers. The course reviews fundamental arithmetic before covering area, perimeter, circumference, percents, ration/ proportion, levers, cutting speed and feeds, trigonometry, metric system, and equations/ formulas.

## **Mathematics Competitions**

University of Vermont Math Exam



## ADVANCED COLLEGE PREP

<i>AP Chemistry</i> .....	20
<i>AP Environmental Science</i> .....	20
<i>AP Physics</i> .....	20
<i>Advanced Biology Honors</i> .....	20
<i>Biology Honors</i> .....	21
<i>Chemistry Honors</i> .....	21
<i>Physics Honors</i> .....	22

## COLLEGE PREP

<i>Anatomy &amp; Physiology</i> .....	20
<i>Biology</i> .....	21
<i>Chemistry</i> .....	21
<i>Freshman Science</i> .....	22
<i>Introduction to Exercise Science</i> ....	22
<i>Physics</i> .....	22

## GENERAL EDUCATION COURSES

<i>Animal Science</i> .....	20
<i>Applied Biology</i> .....	21
<i>Applied Freshman Science</i> .....	21
<i>Environmental Studies</i> .....	22
<i>Horticulture</i> .....	22
<i>Vermont Ecology</i> .....	22

## GRADUATION REQUIREMENTS

3 credits in Science

## PHILOSOPHY

The science faculty share a common mission: to instill students with the excitement of discovery and a sense of responsibility for themselves and others. They teach the necessity of global responsibility. Students are made aware of the importance of working together to solve problems. They also learn that their actions must be based on logic and factual evidence. The faculty's dedication to lifelong learning informs LI's students about becoming productive scientists, workers, and community members.

## CLASSROOM CLIMATE

Science classrooms at LI are challenging for all students. Students learn how to collect accurate information, organize it, analyze it, and solve problems by applying it. Lab experiments and reports, reading and research assignments, quizzes and exams all teach and assess learning in each course. Students are expected to be attentive and respect the equipment they use and the people with whom they work. In LI science classes, labs, computers, scientific equipment, field work, and research are all tools used for exploring the physical world.

## SCIENCE COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>Biology Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Chemistry Honors</i></li> <li>• <i>Biology Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Physics Honors</i></li> <li>• <i>AP Chemistry</i></li> <li>• <i>Chemistry Honors</i></li> <li>• <i>AP Physics</i></li> <li>• <i>AP Environmental Science</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Advanced Biology Honors</i></li> <li>• <i>AP Chemistry</i></li> <li>• <i>Physics Honors</i></li> <li>• <i>AP Physics</i></li> <li>• <i>AP Environmental Science</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Biology</i></li> <li>• <i>Freshman Science</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Chemistry</i></li> <li>• <i>Biology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Physics</i></li> <li>• <i>Chemistry</i></li> <li>• <i>Anatomy &amp; Physiology</i></li> <li>• <i>Intro to Exercise Science</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Physics</i></li> <li>• <i>Chemistry</i></li> <li>• <i>Anatomy &amp; Physiology</i></li> <li>• <i>Intro to Exercise Science</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Applied Freshman Science</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Applied Biology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Animal Science</i></li> <li>• <i>Environmental Studies</i></li> <li>• <i>Horticulture</i></li> <li>• <i>Vermont Ecology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Animal Science</i></li> <li>• <i>Environmental Studies</i></li> <li>• <i>Horticulture</i></li> <li>• <i>Vermont Ecology</i></li> </ul>

NOTE: Appropriate math skills are prerequisites for some science classes.

<p style="text-align: center;"><b>AP Chemistry</b></p> <p>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.</p>	<p style="text-align: right;"><i>Advanced College Prep</i></p> <p style="text-align: right;">Grade: 11, 12 Course length: 1 year Credit: 1 Prerequisite: B in <i>Chemistry Honors</i> and permission of the instructor.</p>
<p style="text-align: center;"><b>AP Environmental Science</b></p> <p>This course is equivalent to a college introductory environmental science course. Students will explore the interaction between humans and the physical, chemical, and biological components of the world around them with the goals of understanding the scientific principles, concepts, and methodologies that apply to current environmental problems worldwide. Extended laboratory work and field research will be integral components of this interdisciplinary course. Students are expected to take the AP Environmental Science Exam at the end of this course.</p>	<p style="text-align: right;"><i>Advanced College Prep</i></p> <p style="text-align: right;">Grade: 11, 12 Course length: 1 year (Multi-Period) Credit: 1 Prerequisite: B or better in <i>Biology Honors</i> and <i>Chemistry Honors</i> or permission of instructor.</p>
<p style="text-align: center;"><b>AP Physics</b></p> <p>This course is a second year physics course and the equivalent of an algebra-based, college-level physics course. Students will explore in-depth the fundamental concepts and principles of physics with an emphasis on inquiry and critical thinking skills, including problem solving, mathematical reasoning, and experimental investigations. Topics of study from classical and modern physics include Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Extended laboratory work is an integral component of this course. Students are expected to take the AP Physics B Exam at the end of this course.</p>	<p style="text-align: right;"><i>Advanced College Prep</i></p> <p style="text-align: right;">Grade: 11, 12 Course length: 1 year (Multi-Period) Credit: 1 Prerequisite: B or better in <i>Geometry Honors</i> and <i>Physics Honors</i> or permission of instructor.</p>
<p style="text-align: center;"><b>Advanced Biology Honors</b></p> <p>This fast-paced course is designed to build upon the content from previous biology courses. Science-oriented students will be challenged to deepen their understanding of biological concepts through readings, research, and discussions to best prepare them for future rigorous college courses. Cutting-edge science from today's headlines will be incorporated to supplement and enhance the textbooks. Major units of study include cellular biology, classical and molecular genetics, evolution, botany, zoology, microbiology, and ecology.</p>	<p style="text-align: right;"><i>Advanced College Prep</i></p> <p style="text-align: right;">Grade: 12 Course length: 1 year Credit: 1 Prerequisite: B in <i>Biology Honors</i> and B- in <i>Chemistry Honors</i></p>
<p style="text-align: center;"><b>Anatomy and Physiology</b></p> <p>Human <i>Anatomy and Physiology</i> is designed to provide students with a general understanding of the human body and how it functions. It is targeted toward students who wish to pursue an interest in the health care fields.</p>	<p style="text-align: right;"><i>College Prep</i></p> <p style="text-align: right;">Grade: 11, 12 Course length: 1 semester Credit: 1/2 Prerequisite: Successful completion of <i>Biology</i></p>
<p style="text-align: center;"><b>Animal Science</b></p> <p>This half-year course will focus on domestic animals. Horses, cows, dogs, cats, and more will be studied. Comparative anatomy and physiology will be examined, as well as disease, behavior, and production techniques. Contemporary social issues, such as animal abuse will be discussed. Field trips to see embryo transplants in cattle and veterinarian operations are also planned.</p>	<p style="text-align: right;"><i>College Prep</i></p> <p style="text-align: right;">Grade: 11, 12 Course length: 1 semester Credit: 1/2 Prerequisite: Successful completion of <i>Biology</i></p>

## Applied Biology

Grade: 10  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion of *Applied Freshman Science* and recommendation of freshman science instructor

The basic process skills of science are continued from *Freshman Science* experiences. This course is for students who are language challenged and emphasizes hands-on learning. Topics of discussion and exploration include cells, genetics, plants, animals, diversity, evolution, behavior, anatomy, and ecology.

## Applied Freshman Science

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of the 8th grade science teacher

This course helps students develop a better understanding of the world through the study and discussion of topics dealing with technology, earth, space, and physical sciences. Critical thinking skills are developed along with organizational and communication skills.

## College Prep

Grade: 9, 10  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion of *Freshman Science*. Incoming freshman: Concurrent enrollment in *Algebra 1* or higher math course.

## Biology

This course is designed to expose students to a wide variety of life sciences. Areas of study include: cellular biology, genetics, evolution, microbiology, botany, zoology, and ecology. Emphasis is placed on instilling scientific literacy, particularly as to how biology relates to students' everyday lives. Laboratory and field investigations will supplement class work.

## Advanced College Prep

Grade: 9, 10  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of previous Science instructor and concurrent enrollment in *Geometry* or higher math course. Incoming freshman: ACT Explore test scores in Science will also be considered.

## Biology Honors

This course meets the needs of students who plan to attend college. Students will be selected based on ability. Content areas covered by the class include cells, genetics, plants, animals, diversity, evolution, behavior, anatomy, and ecology. Laboratory and field investigations are major methods of study.



## College Prep

Grade: 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion of both *Biology* and *Algebra*.

## Chemistry

This laboratory course is designed for college-bound students who do not expect to major in a science related field. Topics covered will include: atomic theory, bonding, solutions, chemical reactions, behavior of gases, interaction of energy and matter, and the history/background of chemistry. Emphasis will be placed on how chemistry applies to the students' everyday life.

## Advanced College Prep

Grade: 10, 11  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion of *Biology* or *Biology Honors* and B- in *Algebra 1, Part 2* or *Honors* or C in *Geometry*.

## Chemistry Honors

This challenging college-prep course will cover similar general topics as in Chemistry, but in much more depth and at a faster pace. The approach is quantitative with an emphasis on lab work with more strenuous mathematical expectations. Greater independence will be expected of the students, both in homework and lab procedures.



## Environmental Studies

Students will explore the relationship between humans and their environment. In addition to the scientific concepts, they will look at the philosophies, ethics, economics, politics, and policies related to various environmental topics. This interdisciplinary approach will encourage students to look at the totality of current environmental problems and to examine various possible solutions for resolving and/or preventing them.

Grade 11, 12  
 Course length: 1 semester (Spring)  
 Credit: 1/2  
 Prerequisite:  
 Successful completion of *Biology*

## Freshman Science

This course helps students develop a better understanding of the world through the study and discussion of topics dealing with technology, earth, space, and physical science. Critical thinking skills are developed along with organizational and communication skills. Students develop more extensive scientific research skills through the use of technology, laboratory investigations, and real-world studies.

## College Prep

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of  
 8th grade Science teacher

## Horticulture

Students are introduced to potential job opportunities in the plant science field. A general study of plant anatomy and physiology is followed by units on soil science, plant propagation, maple sugaring, pest control, and landscape planning. Hands-on laboratories include field trips to greenhouses, natural ecosystems, a Christmas tree farm, grafting operations, and pruning village trees.

Grade: 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite:  
 Successful completion of *Biology*

## Introduction to Exercise Science

This course is intended to provide a background in *Exercise Physiology* and *Kinesiology* to students that are interested in pursuing a career in the health care field or the allied health science industry. Students will study how and why the body performs and reacts the way it does before, during, and after exercise. Medical terminology and a comprehensive study of functional anatomy will also be incorporated into this course.

## College Prep

Grade: 11, 12  
 Course length: 1 semester (Spring)  
 Credit: 1/2 (Counts as Physical  
 Education or Science credit)  
 Prerequisite: *Biology*

## Physics

This course is an integrated, hands-on approach to teaching physics. It focuses on problem-solving and is designed to present the discipline of physics in the context of how it is practically experienced in the world and how it is used in technology. Emphasis is placed on the application of physics principles in mechanical, fluid, electrical and thermal energy systems.

## College Prep

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion  
 of *Algebra 1, Part 2*

## Physics Honors

Taking this course helps students increase their knowledge of the physical world by conducting experiments that determine how variables are related mathematically. The discovery method is emphasized. Supplementary text provides historical and humanistic perspectives. Problem solving occurs only after laws of physics are revealed.

## Advanced College Prep

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful  
 completion of *Geometry* and  
*Chemistry* or *Chemistry Honors*,  
 or permission of instructor

## Vermont Ecology

*Vermont Ecology* will focus on the interactions between living organisms and their environment. Using our local ecosystem as a model, students will study populations, relationships, biogeochemical cycles, human impact, and their own particular role in the environment. Emphasis will be placed on current events and practices in Vermont.

Grade: 11, 12  
 Course length: 1 semester (Fall)  
 Credit: 1/2  
 Prerequisite:  
 Successful completion of *Biology*

## ADVANCED COLLEGE PREP

<i>AP European History</i> .....	24
<i>AP United States History</i> .....	24
<i>Contemporary American History Honors</i> .....	25
<i>United States History Honors</i> .....	27
<i>World Geography Honors</i> .....	28
<i>World History Honors</i> .....	28

## COLLEGE PREP

<i>American Women's History</i> .....	24
<i>Art History</i> .....	25
<i>Asian Studies</i> .....	25
<i>Civics and Constitutional Law</i> .....	25
<i>Genocide and Human Rights</i> .....	26
<i>Macroeconomics</i> .....	26
<i>Microeconomics</i> .....	26
<i>Military History of the 20th Century</i> .....	26
<i>Philosophy</i> .....	27
<i>Sociology</i> .....	27
<i>United States History</i> .....	27
<i>Vermont History</i> .....	27
<i>World Geography</i> .....	28
<i>World History</i> .....	28

## GENERAL EDUCATION COURSES

<i>Applied United States History</i> .....	24
<i>Applied World Geography</i> .....	24
<i>Applied World History</i> .....	25
<i>Economics</i> .....	26

## GRADUATION REQUIREMENTS

3 credits, one of which must be in United States History

## PHILOSOPHY

The social studies faculty at Lyndon Institute believe in the importance of fostering global awareness. The broad umbrella of social studies encompasses geography, history, anthropology, current social, political, and economic issues and trends, and multicultural exchange. Students of all abilities will find areas in this field which stimulate and interest them as students of the world.

## CLASSROOM CLIMATE

Social studies classes are often lively with thought-provoking discussions, computer-aided research, and creative projects designed to make the subjects come alive in the classroom. Sound research methods are required for success, as are strong study and organizational skills. Grades are based upon demonstrated performance on tests, quizzes, exams, research papers and projects, and class participation.

## SOCIAL STUDIES COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>World Geography Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>World History Honors</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP U.S. History*</i></li> <li>• <i>U.S. History Honors*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP European History</i></li> <li>• <i>Contemporary American History Honors</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>World Geography</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>World History</i></li> <li>• <i>Philosophy</i></li> <li>• <i>Sociology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>U.S. History*</i></li> <li>• <i>World History</i></li> <li>• <i>American Women's History</i> <ul style="list-style-type: none"> <li>• <i>Art History</i></li> <li>• <i>Asian Studies</i></li> </ul> </li> <li>• <i>Civics and Constitutional Law</i></li> <li>• <i>Genocide and Human Rights</i> <ul style="list-style-type: none"> <li>• <i>Macroeconomics</i></li> <li>• <i>Microeconomics</i></li> </ul> </li> <li>• <i>Military History of the 20th Century</i> <ul style="list-style-type: none"> <li>• <i>Philosophy</i></li> <li>• <i>Sociology</i></li> </ul> </li> <li>• <i>Vermont History</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>U.S. History*</i></li> <li>• <i>American Women's History</i> <ul style="list-style-type: none"> <li>• <i>Art History</i></li> <li>• <i>Asian Studies</i></li> </ul> </li> <li>• <i>Civics and Constitutional Law</i></li> <li>• <i>Genocide and Human Rights</i> <ul style="list-style-type: none"> <li>• <i>Macroeconomics</i></li> <li>• <i>Microeconomics</i></li> </ul> </li> <li>• <i>Military History of the 20th Century</i> <ul style="list-style-type: none"> <li>• <i>Philosophy</i></li> <li>• <i>Sociology</i></li> </ul> </li> <li>• <i>Vermont History</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Applied World Geography</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Applied World History</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Applied U.S. History*</i></li> <li>• <i>Economics</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Economics</i></li> </ul>

\* Either *AP U.S. History*, *U.S. History Honors*, *U.S. History*, or *Applied U.S. History* is required for graduation.

## AP European History

*Advanced College Prep*

This course is based on college level work. Students will practice note taking, essay writing, data based questions, and test taking skills. Research will be emphasized. The content of this course will begin with the Renaissance and cover European history through to the modern era. Philosophy, art, and music are integral facets of the course.

Grade: 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: B in *U.S. History* and recommendation of U.S. History instructor or B- in *AP U.S. History*

## AP United States History

*Advanced College Prep*

*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. Students will be expected to take the College Board AP exam in May for potential college credit.

Grade: 11  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Permission of the Social Studies Department

## American Women's History

*American Women's History* will be a discussion-based upper-level course that focuses on primary sources in order to learn about the real experiences of the average woman. This course will examine social, political, and economic issues of women in United States History from the colonial period to the present. Students will relate these issues to conditions and social expectations for both men and women today. Students will supplement their readings with various films and independent research on topics of interest.

Grade: 11, 12  
 Course length: 1 semester (Fall)  
 Credit: 1/2  
 Prerequisite: None

## Applied United States History

This United States history course provides an in-depth study of the following themes in our history: the Constitution and the Bill of Rights, Expansion and Manifest Destiny, the American Indian, the Civil War, Industrialization, Immigration, World War I, the Depression, World War II, the Cold War, the Civil Rights Movement, Vietnam, and contemporary issues. Current events are also covered regularly.

Grade: 11  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of the Social Studies Department

## Applied World Geography

Students explore social interaction and the manner in which individuals and groups are impacted by current and historical events, institutions and forces. Students are encouraged to explore alternative interpretations of their own culture past and present, and important local and national events. Listening skills, note taking, and oral and written expression are emphasized. Students participate in a survey of Global Geography.

Grade: 9  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Recommendation of the 8th grade social studies teacher and Student Services

## Applied World History

Grade: 10  
Course length: 1 year  
Credit: 1  
Prerequisite: None

*Applied World History* is a year long course designed for sophomores. This course will introduce global history to students enhancing their ability to understand the world as it once existed and as it exists around them. Students will be able to connect the past to the present and understand how the actions of the past affect their world today. Beginning with the Early Civilizations and ending with the post-World War II era, students explore the continents of Asia, Africa, South America, and Europe in order to develop a greater global awareness. Students will focus on improving organization, reading, writing, and note-taking skills.

## College Prep

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: None

## Art History

*Art History* examines works of art and creative processes from all over the world. The first semester focuses on art from the prehistoric period to the Medieval period, while the second semester covers the Renaissance to the present. Students explore not only the visual arts, but also history and a wider range of culture (literature, music & recorded performances). Throughout each unit of study, students also create works of art relevant to the specific location and era.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: C in  
*World Civilizations* or *U.S. History*  
and Social Studies Department  
recommendation

## Asian Studies

*Asian Studies* is a one semester social studies elective course for juniors and seniors with an interest in studying the history of Asia. Students will cover the areas known as Monsoon Asia (India, China, Southeast Asia, Korea, and Japan) from the earliest of times to the present. Class discussion will concentrate on extensive analysis of Asian cultures and integrate the complex and diverse political, social, intellectual, and economic histories of this area. A final research project may be required.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisites: Recommendation of  
instructor.

## Civics and Constitutional Law

*Civics and Constitutional Law* is a one semester social studies elective for juniors and seniors with an interest in studying the practical application of the law. Students are expected to gain an understanding for how the law is applied to both juveniles and adults in criminal and civil court. They are also expected to understand their rights as provided by the Constitution and Bill of Rights. Students demonstrate their knowledge and understanding of the law through writings such as legal briefs and classroom discussion. Classroom visits by attorneys and police officers as well as a visit to the courthouse are included.

## Advanced College Prep

Grade: 12  
Course length: 1 year  
Credit: 1  
Prerequisite: Permission of the  
Social Studies Department

## Contemporary American History Honors

This course is a study of contemporary issues and events involving the United States and the world. Possible topics include human rights, world conflicts, the environment, politics, international relations, racism, urban decay, human relations and current trends and movements within the world community. Grades are determined by class participation, research projects, tests, quizzes, and essays.

## Economics

All class work in this course is designed to give the student important financial survival skills. Grading is liberal and is based on classroom performance, projects and examinations. Field trips to area businesses may be made when relevant. Course work is designed to be practical with regard to personal finance (banking credit), budgeting, investments, buying, insurance, and housing.

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Successful completion of *U.S. History* or currently enrolled in it

## Genocide and Human Rights

Through primary and secondary sources, this course will explore the nature of genocide with a focus on 20th century events. Over the course of the semester, students will examine the historical roots of genocide, study various genocides, and relate those events to the principles of human rights. Potential topics of study are: Armenia, the Holocaust, Rwanda, Darfur, and other related current events or issues. In each unit, students will gain an understanding of the genocide-specific stereotypes, prejudices, and how individuals' actions both negatively and positively impacted society. Students will also apply their learning of past genocides to ongoing and future world problems, and learn to be responsible citizens who each have the power to change the course of history.

### College Prep

Grade: 11, 12  
 Course length: 1 semester (Spring)  
 Credit: 1/2  
 Prerequisite: None

## Macroeconomics

This course will cover the basic economic concepts followed by a macroeconomic focus (our global and national economy). The objective of this course is to introduce basic economic concepts while providing a firm foundation in the key concepts of macroeconomics. Students will investigate how to measure economic performance, an individual nation's incomes, as well as how they determine their prices, the financial sector, stabilization policies, growth and productivity, and international trade and finance.

### College Prep

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: None

## Microeconomics

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.

### College Prep

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: Permission of the Social Studies Department

## Military History of the 20th Century

Conflict has played a major role in the rapid social, political, and technological changes experienced in the world in the previous 100 years. This course introduces the student to the historical role of the military in tactics, technology, leadership, and relevance to contemporary historical events. Each thematic unit (approximately two weeks in duration) introduces the student to a concept of warfare that has ramifications in modern political policy. Artifact inquirer-based instruction will play a large role in the course, with students able to examine and observe relevant historical items (both originals and replicas), such as the English long bow, armor, medals, flintlock, and rationing books.

### College Prep

Grade: 11, 12  
 Course length: 1 semester (Fall)  
 Credit: 1/2  
 Prerequisite: *World Geography*, *World History*, and *U.S. History*

## College Prep

Grade: 10, 11, 12  
Course length: 1 semester (Fall)  
Credit: 1/2  
Prerequisite: None

## Philosophy

*Philosophy* is an elective course which uses student reflection as a tool for inquiry. Students will be introduced to early philosophers, ethics, logic, and the metaphysical. A strong focus will be on the student's own philosophical makeup. Each student will be required to hand in a project entailing their philosophy on life. The class relies on strong class participation as its driving force.

## College Prep

Grade: 10, 11, 12  
Course length: 1 semester (Spring)  
Credit: 1/2  
Prerequisite: None

## Sociology

This course introduces the study of human relationships to students who will not only learn the basic principles, concepts, and theories that constitute the core study of Sociology, but will also gain the knowledge to better understand society. Topics of discussion and analysis include culture, roles, norms, deviance, socialization, social institutions, social structure, and social problems. Students will participate in a variety of individual and group projects that examine how groups operate and the conflicts that affect society.

## College Prep

Grade: 11  
Course length: 1 year  
Credit: 1

## United States History

*United States History* consists of an in-depth study of the following themes in our history: the American Revolution, Government, Expansion, Manifest Destiny, the American Indian, the Civil War, industrialization, immigration, minority groups, World War I, the Depression, World War II, the Cold War, Contemporary Studies, the American people, and changing lifestyles. Current events are also covered on a regular basis. Research and/or critical analysis assignments are required on a regular basis.

## Advanced College Prep

Grade: 11  
Course length: 1 semester  
Credit: 1  
Prerequisite: Permission of the Social Studies Department

## United States History Honors

*U.S. History Honors* is an upper-level course designed for 11th graders 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.

## College Prep

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: C in *U.S. History* and Social Studies Department permission or B- in *Applied U.S. History* and Social Studies Department permission

## Vermont History

A thematic approach is used to investigate various topics of interest in *Vermont History*. Unlike chronological history courses, we examine the past, present and future of topics such as physical geography, the Abenaki, settlement, growth and development, transportation, medicine and health care, economic trends, land use, legal system, and environmental issues. Research projects (including a family history), position papers, magazine article reviews, map projects, and oral history projects are required. A field trip is included.

## World Geography

### College Prep

*World Geography* is a freshman survey course designed to improve geographic skills and global awareness. We explore many regions of the world, with an emphasis on forces of nature, environmental, cultural, economic, political, and social issues. Some library research is required, and current events materials are utilized on a continual basis.

Grade: 9  
Course length: 1 year  
Credit: 1

## World Geography Honors

### Advanced College Prep

*World Geography Honors* is an upper-level course designed for freshman planning to attend competitive colleges. This intensive course challenges students to have a thorough understanding in the environmental, political, cultural, economic, and even strategic contexts of the world's regions and nations. Research essays and critical analysis papers are required to enhance student comprehension of current events.

Grade: 9  
Course length: 1 year  
Credit: 1

## World History

### College Prep

*World Civilizations* is a year long college preparatory course designed for juniors with a desire to understand the world as it once existed and as it exists around them. Students are challenged to not only learn about the past history of peoples throughout the world, but to also connect the past to the present and understand how the actions of the past affect their world today. Beginning with the Ancient and Classical Civilizations, students explore the continents of Asia, Africa, South America, and Europe in order to develop a greater global awareness. There are many skills that students work to enhance throughout the year including writing, research, and public speaking.

Grade: 10, 11  
Course length: 1 year  
Credit: 1  
Prerequisite: C+ in *U.S. History* and recommendation of the U.S. History instructor

## World History Honors

### Advanced College Prep

*World History Honors* is an upper-level course designed for sophomores. This course will offer a global perspective of the past, a vision of history that is meaningful and appropriate for our global times. Students will be able to elaborate on the political, social, economic, and cultural traditions from the earliest days of human history to contemporary times. Beginning with the Ancient and Classical Civilizations, students will explore through the course of history the continents of Asia, Africa, South America, and Europe in order to develop a greater global awareness and conclude their journey by studying modern issues. The course emphasizes the research, note-taking, and critical thinking skills students will need to pursue their college-bound careers. Students will be introduced to Advanced Placement components such as document-based assignments and free-response questioning.

Grade: 10  
Course length: 1 year  
Credit: 1  
Prerequisite: B in *World Geography Honors*

## Other Opportunities in Social Studies

### Extracurricular Opportunities

- Scholar's Bowl
- Green Mountain Boys' State
- Green Mountain Girls' State
- Student Council

## VISUAL ARTS

<i>AP Studio Art</i> .....	31
<i>Art History</i> .....	31
<i>Art Honors</i> .....	31
<i>Book Arts</i> .....	31
<i>Design</i> .....	33
<i>Introduction to Studio Art</i> .....	35
<i>Painting</i> .....	36
<i>Photography</i> .....	36
<i>Printmaking and Drawing 1, 2</i> ..	37

## MUSIC

<i>Chorus</i> .....	32
<i>Concert Band</i> .....	32
<i>Group Saxophone Class</i> .....	33
<i>Group Trombone Class</i> .....	34
<i>Improvisation 1, 2</i> .....	34
<i>Instrumental Lessons</i> .....	34
<i>Jazz Band</i> .....	35
<i>Music Theory 1, 2</i> .....	36
<i>Piano</i> .....	36
<i>Select Choral Ensemble</i> .....	37
<i>Vocal Lessons</i> .....	37

## THEATER

<i>Acting</i> .....	31
<i>Introduction to Theater</i> .....	35
<i>Theater Design and Production</i> ..	37

## DANCE

<i>Advanced Dance</i> .....	31
<i>Dance 1, 2</i> .....	32
<i>Dance Company</i> .....	32
<i>Dance History</i> .....	33
<i>Improvisation and Composition</i> ..	34
<i>Jazz Dance</i> .....	35
<i>Lyrical Ballet</i> .....	36

## FASHION DESIGN

<i>Fashion Design</i> .....	33
<i>Introduction to Fashion Design</i> ..	35

## TECHNICAL EDUCATION

<i>Basic Drafting</i> .....	50
<i>Graphic Arts</i> .....	33

## GRADUATION REQUIREMENTS

---

1 credit in Fine or Performing Arts

## PHILOSOPHY

---

Faculty in the Fine and Performing Arts program believe that art is a unifying language. Through serious application, students learn self-discipline and freedom of expression simultaneously. The Fine Arts program gives students the opportunity to explore their own creative energies and talents, fostering individual growth, self-motivation, and self-evaluation.

## CLASSROOM CLIMATE

---

### Visual Arts

The Visual Arts require superior concentration, commitment, and self-motivation. Students are expected to initiate and complete projects on time, use care with tools and materials, gain technique skills, and appreciate others' attempts at self-expression. The serious senior art student is encouraged to produce an art portfolio for use in college and job applications.

### Music

Students in Music programs learn skills that enable them to converse with musicians who share their interests and perform for audiences. They are taught in a conservatory-like atmosphere. Group musical organizations require commitment, follow-through, and practice for success. Students learn self-discipline and teamwork, public deportment and performance skills.



### Theater and Dance

Theater and Dance are performance-based disciplines and encourage students to learn the basics, progressing to advanced levels of expression and personal development in each concentration. Theater and Dance are designed to give students an appreciation of themselves, presentation, interpretation, creative staging, movement, and history in each area.



## FINE AND PERFORMING ARTS COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>Introduction to Studio Art</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Studio Art</i></li> <li>• <i>Book Arts</i></li> <li>• <i>Painting</i></li> <li>• <i>Printmaking and Drawing 1, 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Studio Art</i></li> <li>• <i>Art History</i></li> <li>• <i>Book Arts</i></li> <li>• <i>Painting</i></li> <li>• <i>Printmaking and Drawing 1, 2</i></li> <li>• <i>Design</i></li> <li>• <i>Photography</i></li> <li>• <i>Graphic Arts</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Studio Art</i></li> <li>• <i>Art History</i></li> <li>• <i>Book Arts</i></li> <li>• <i>Painting</i></li> <li>• <i>Printmaking and Drawing 1, 2</i></li> <li>• <i>Design</i></li> <li>• <i>Photography</i></li> <li>• <i>Art Honors</i></li> <li>• <i>AP Studio Art</i></li> <li>• <i>Graphic Arts</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Concert Band</i></li> <li>• <i>Jazz Band</i></li> <li>• <i>Group Saxophone Class</i></li> <li>• <i>Group Trombone Class</i></li> <li>• <i>Improvisation 1, 2</i></li> <li>• <i>Music Theory 1, 2</i></li> <li>• <i>Chorus</i></li> <li>• <i>Select Choral Ensemble</i></li> <li>• <i>Instrumental Lessons</i></li> <li>• <i>Piano</i></li> <li>• <i>Vocal Lessons</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Concert Band</i></li> <li>• <i>Jazz Band</i></li> <li>• <i>Group Saxophone Class</i></li> <li>• <i>Group Trombone Class</i></li> <li>• <i>Improvisation 1, 2</i></li> <li>• <i>Music Theory 1, 2</i></li> <li>• <i>Chorus</i></li> <li>• <i>Select Choral Ensemble</i></li> <li>• <i>Instrumental Lessons</i></li> <li>• <i>Piano</i></li> <li>• <i>Vocal Lessons</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Concert Band</i></li> <li>• <i>Jazz Band</i></li> <li>• <i>Group Saxophone Class</i></li> <li>• <i>Group Trombone Class</i></li> <li>• <i>Improvisation 1, 2</i></li> <li>• <i>Music Theory 1, 2</i></li> <li>• <i>Chorus</i></li> <li>• <i>Select Choral Ensemble</i></li> <li>• <i>Instrumental Lessons</i></li> <li>• <i>Piano</i></li> <li>• <i>Vocal Lessons</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Concert Band</i></li> <li>• <i>Jazz Band</i></li> <li>• <i>Group Saxophone Class</i></li> <li>• <i>Group Trombone Class</i></li> <li>• <i>Improvisation 1, 2</i></li> <li>• <i>Music Theory 1, 2</i></li> <li>• <i>Chorus</i></li> <li>• <i>Select Choral Ensemble</i></li> <li>• <i>Instrumental Lessons</i></li> <li>• <i>Piano</i></li> <li>• <i>Vocal Lessons</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Introduction to Theater</i></li> <li>• <i>Theater Design and Production</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Acting</i></li> <li>• <i>Introduction to Theater</i></li> <li>• <i>Theater Design and Production</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Acting</i></li> <li>• <i>Introduction to Theater</i></li> <li>• <i>Theater Design and Production</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Acting</i></li> <li>• <i>Introduction to Theater</i></li> <li>• <i>Theater Design and Production</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Dance 1, 2</i></li> <li>• <i>Jazz Dance</i></li> <li>• <i>Lyrical Ballet</i></li> <li>• <i>Advanced Dance</i></li> <li>• <i>Improv. and Comp.</i></li> <li>• <i>Dance History</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Dance 1, 2</i></li> <li>• <i>Jazz Dance</i></li> <li>• <i>Lyrical Ballet</i></li> <li>• <i>Advanced Dance</i></li> <li>• <i>Improv. and Comp.</i></li> <li>• <i>Dance History</i></li> <li>• <i>Dance Company</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Dance 1, 2</i></li> <li>• <i>Jazz Dance</i></li> <li>• <i>Lyrical Ballet</i></li> <li>• <i>Advanced Dance</i></li> <li>• <i>Improv. and Comp.</i></li> <li>• <i>Dance History</i></li> <li>• <i>Dance Company</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Dance 1, 2</i></li> <li>• <i>Jazz Dance</i></li> <li>• <i>Lyrical Ballet</i></li> <li>• <i>Advanced Dance</i></li> <li>• <i>Improv. and Comp.</i></li> <li>• <i>Dance History</i></li> <li>• <i>Dance Company</i></li> <li>• <i>Independent Dance Study</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Introduction to Fashion Design</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Fashion Design</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Fashion Design</i></li> <li>• <i>Fashion Design</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Fashion Design</i></li> <li>• <i>Fashion Design</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> <li>• <i>Graphic Arts</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> <li>• <i>Graphic Arts</i></li> </ul>

# Fine and Performing Arts Courses

## Acting

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Intro to Theater*  
or permission of instructor

This is an intensive performance-based acting class. This course's aim is to develop advanced acting skills by combining in-depth script analysis and body movement work. Students are required to perform in or work on one of LI's three major theatrical productions. Class enrichment includes possible trips to professional theater productions.

## Advanced Dance

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *Dance 1, Dance 2, Jazz Dance, Lyrical Ballet,*  
or permission of instructor

This class is for students with previous dance experience. It affords them the opportunity to improve upon skills already learned before moving to the next level or simply to get experience teaching basic terminology and choreographic principles to others who may be new to the material. This class gives each student a chance to gain experience using prior knowledge of basic ballet and jazz material to further their self development through repeating combinations, preparing, and teaching lessons to new dance students.

## Advanced College Prep

Grade: 12  
Course length: 1 year, 2 periods per day  
Credit: 1-1/2  
Prerequisite: Permission of the  
Art Department and Student Services,  
and at least 3 high school art courses

## AP Studio Art: Design/Drawing

*AP Studio Art* follows the College Board curriculum/syllabus for studio art. This course requires dedication, hard work, and high levels of artistic talent. 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, a concentration of 12 pieces. Students will demonstrate their breadth of skills, techniques, and media with 12 different pieces. Students will create 5 quality pieces. 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 portfolio can be used with college application when applying to art colleges or universities.

## College Prep

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: None

## Art History

*Art History* examines works of art and creative processes from all over the world. The first semester focuses on art from the prehistoric period to the Medieval period, while the second semester covers the Renaissance to the present. Students explore not only the visual arts, but also history and a wider range of culture (literature, music & recorded performances). Throughout each unit of study, students also create works of art relevant to the specific location and era.

## Advanced College Prep

Grade: 12  
Course length: 1 year  
Credit: 1  
Prerequisite: Permission of instructor  
and two previous art courses

## Art Honors

This course is intended for the highly motivated art student. An awareness of quality is encouraged and developed on a superior level. Intense concentration and exploration for quality and breadth is expected.

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: Permission of  
Art Department

## Book Arts

Hands-on, model making and study of historical book forms leading to creative individual book projects and techniques.

## Chorus

The “L.I. Voices” is a performing organization open to all students who enjoy singing. No audition is required. The Chorus performs in the Holiday and Spring concerts, as well as at the Baccalaureate ceremony. A variety of choral music styles, in addition to basic music theory and musicianship, is presented.

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

## Concert Band

*Concert Band* is a performing group focusing on developing individual skill on a particular instrument as well as the skills necessary to work in a large ensemble. There are multiple opportunities for public performance (some are required) including: athletic events, holiday and spring concerts, Commencement, Memorial Day parade, and other events. There are opportunities to learn from and often perform with various guest artists as well as opportunities to take part in community service and outreach. *Concert Band* students also have the opportunity to participate in District Music Festival, All-State Festival, and other honors ensembles.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: Permission of instructor.  
Open to all students with minimal experience on a musical instrument (typically a woodwind, brass, or percussion instrument, but occasionally others, such as piano, guitar, bass, or strings).

## Dance 1

This course is an introduction to dance. Students will explore ballet and jazz technique, learn how to notate dance choreography, and embark on a unit of choreography in jazz and hip-hop styles of movement used in a variety of styles of dance. If you’ve never danced or just want to review the fundamentals, *Dance 1* is the course for you. It is a great beginning and a wonderful review of technical basics for any dancer.

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

## Dance 2

*Dance 2* is a continuation of *Dance 1* and preparation for *Jazz Dance*. This course expands and manipulates more of the ballet and jazz vocabulary learned in *Dance 1* with a more intense emphasis on proper technique, detailed physical executions of steps, descriptive notations, and deeper study and analysis of the effects of applying various elements of movement to choreography (i.e. experimentation with tempo and rhythm, level changes, partner work, adjectives in motion, etc.).

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *Dance 1* or permission of instructor

## Dance Company

*Dance Company* is strictly a performance and technique ensemble that is a selected group of dancers who have taken dance previously, at LI or another dance studio/school, and have auditioned because they are serious about learning more of the art of dance. Students will be expected to learn at a faster pace, execute more precision artistically and technically with terminology, implement the elements of movement without difficulty, take on leadership roles easily, and be able to commit to performances outside of class time as written in the contract.

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1/2  
Prerequisite: By audition

---

## Dance History

---

Grade: 9, 10, 11, 12  
Course length: 1 semester (Spring)  
Credit: 1/2  
Prerequisite: *Dance 1*

Dance is not simply a performing art - it is also considered a public art form and as such, it is accessible to anyone from any background. It has evolved since the beginning of time and has been influenced by society, culture, and economics. The *Dance History* course provides a solid intellectual understanding of the origins of dance and of the changes it has undergone over time. In this course, students will be dancing, as well as reading, writing, presenting, and watching videos about dance throughout history. *Dance History* students will also have the opportunity to learn a piece and perform it in the end-of-semester performance.

---

## Design

---

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Art 1* or permission of instructor

Using the Elements and Principles of Design as a focus of study for the full year course, students will explore a variety of media and techniques selected to expose students to the limitless possibilities for creative expression through design concepts. Emphasis will be on strengthening individual creativity through a wide variety of processes and units of study. The students will be building on their experiences to achieve fuller understanding of the application of design in the past, present and future.

---

## Fashion Design

---

Grade: 11, 12  
Course length: 1 year  
Credits: 3  
Prerequisite: None

Students who are interested in fashion, art, or creative design will be given an opportunity to grow and explore careers in the fashion industry. They will learn how to sketch a fashion figure, design clothing, make their own patterns, sew garments they can wear, and put on a fashion show. Students will learn about everything from fashion trends to textiles. *Fashion Design* is a three-period course which includes a 45-minute independent lab.

---

## Graphic Arts

---

Grade: 11, 12  
Course length: 1 year  
Credits: 3  
Prerequisite: *Introduction to Studio Art* and *Computer Applications*

*Graphic Arts* is a 3-period technical program that emphasizes advertising, web design, publishing, fine arts printing, animation, and a variety of other applications, using the latest version of *Adobe Creative Suite*. The student will learn to create the professional results that are expected in today's industry. Careers in the graphic arts can offer satisfying jobs with unlimited potential for advancement.

---

## Group Saxophone Class

---

Grade: 9, 10, 11, 12  
Course length: 1 semester (Fall & Spring)  
Credit: 1/2  
Prerequisite: None

Students can be beginners or returning players. The class will meet every day for one period. Students may bring their own saxophones, the LI Music Department will loan up to 6 tenor saxophones, or instruments are available for rental from Ellis Music. There will be homework and playing tests, as well as a final playing exam. All students will be encouraged to participate in the band program. Students who do not join the band program after one semester will be asked to return the LI instrument.

## Group Trombone Class

Students will learn basic brass technique, such as slide positions, note reading, rhythms, etc. The class will meet every day for one period. Students may bring in their own trombones, LI will loan up to five instruments, or trombones are available for rental from Ellis Music. All students will be encouraged to participate in the band program. Students who do not join the band program after one semester will be asked to return the LI instrument.

Grade: 9, 10, 11, 12  
 Course length: 1 semester  
 (Fall & Spring)  
 Credit: 1/2  
 Prerequisite: None

## Improvisation 1

Students will be introduced to 12-bar Blues, Blues scales modes and how they relate to improvisation. Class time will be split between studying cords and cord scales and performing them.

Grade: 9, 10, 11, 12  
 Course length: 1 semester (Fall)  
 Credit: 1/2  
 Prerequisite: Participation in  
 Concert/Jazz Band  
 or permission of the instructor

## Improvisation 2

*Improvisation 2* will continue where *Improvisation 1* left off. Students will explore the II-V relationship, tensions, guide tones, chords, scales, key centers, and patterns as they relate to improvisation. Class time will be split between study and performance.

Grade: 9, 10, 11, 12  
 Course length: 1 semester (Spring)  
 Credit: 1/2  
 Prerequisite: *Improvisation 1* and  
 participation in Concert/Jazz Band  
 or permission of the instructor

## Improvisation and Composition

This course will teach students about the elements of movement, various ways of notating and teaching dance, how to manipulate movement phrases, and proper methods of critiquing dance pieces and performances. *Improvisation and Composition* is important for dance students who want to learn how to move their bodies more freely with or without technique. It is a safe and encouraging way to build self-esteem and collaboration skills, learn non-verbal methods of communication, and enhance one's creative mind and abilities. Students will be given creative movement activities and movement phrases or tasks with which they will develop their own work, teach one another, perform it, and critique it. Students will also be able to create work to be shown in the end-of-semester performance.

Grade: 9, 10, 11, 12  
 Course length: 1 semester (Fall)  
 Credit: 1/2  
 Prerequisite: None

## Instrumental Lessons

Private or semi-private instruction in music. Lessons take place weekly, last 45 minutes, and are scheduled during study halls, free periods, or after-school. Students strive to increase personal musical skills and abilities, develop skills in goal-setting, and the ability to self-critique. Students will prepare repertoire and audition for either the District Jazz Festival, District Music Festival and/or All-State Festival. They will also select, prepare, and perform at least one substantial work suited to the student's ability and experience.

Grade: 9, 10, 11, 12  
 Course length: 1 year  
 Credit: 1/4  
 Prerequisite: Permission of instructor.  
 No previous musical experience  
 is necessary. Students are strongly  
 encouraged to participate  
 in a performing group at LI

## Introduction to Fashion Design

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: None

This course is a condensed version of *Fashion Design* and is only one period. Students learn to sketch the fashion figure, design a collection, and make an outfit from their collection. They will also learn what colleges look for in a fashion design portfolio.

## Introduction to Studio Art

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: For 8th graders, high school art teacher evaluation of three pencil drawings from life

*Introduction to Studio Art* is an exploratory and experimental approach course emphasizing use of various media, individual growth, and freedom of expression. The art student must be self-disciplined through self-motivation and self-evaluation. Art challenges the serious and whole student intellectually, emotionally, and physically to learn by doing. In the studio, the foundation for a strong concentration in design, drawing, painting, printmaking, and three-dimensional work is begun.

## Introduction to Theater

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

*Introduction to Theater* is a prerequisite for all students interested in studying *Acting* and/or *Theater Design and Production*. Students will learn theater history, study genres of theater and important plays and playwrights, learn and practice acting techniques, and learn the basics of theater design and production: designing, hanging, and focusing stage lights, running a lighting board, and designing sets and costumes. Students will be able to choose their area of focus within the class – acting or backstage work – and will be involved on or off the stage in the student showcases, the school musical and festival plays, and other LI arts performances. Students may continue on to *Acting* or repeat this course for another credit.

## Jazz Band

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: Audition and permission of the instructor. Students are strongly encouraged to take *Instrumental Lessons*.

*Jazz Band* is an intensive performance group focusing on developing individual skill on a particular instrument as well as the skills necessary to work in an ensemble. There are multiple opportunities for public performance. Members strive to increase skills in improvisation and performing in various jazz styles, as well as developing skills in sight-reading, ear training, and an understanding of harmony as applied to jazz arranging, composition, and improvisation. Students will have an opportunity to compose and arrange material for the ensemble.

## Jazz Dance

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Dance 1* and *Dance 2* or permission of instructor

*Jazz Dance* is a continuation of *Dance 2*. In this class, the emphasis is on jazz dance terminology, the style of movement, as well as the technique of the body position in motion. Students will focus more precisely on anatomical correction and awareness taught during each class (in particular, evaluation of the warm up exercise) plus much work with choreography and history/research projects. *Jazz Dance* offers more opportunity for student choreography, dance notation, and research about a famous dancer from a particular era of dance history.

## Lyrical Ballet

This course is very different from many other dance courses in that it works the body in more of a toning manner (i.e. Pilates & Callanetics-based exercises to get the blood flowing and create an awareness of body structure) and prepares the dancer for more serious training in the future. Students learn specifically how the body moves without injury and to further one's technical and artistic development. In this class, each student will become aware of how to use muscles properly for initiating lyrical/contemporary movements based from ballet technique.

Grade: 9, 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *Dance 1* and *Dance 2*  
 or permission of instructor

## Music Theory 1

This class is for any student, regardless of experience, who would like to gain an understanding of how music works. During this time students will explore the basics of music, i.e. the staff, scales intervals, rhythm, and notating music on staff paper. Students will be using the *Berklee College of Music Theory 1* book.

Grade: 9, 10, 11, 12  
 Course length: 1 semester (Fall)  
 Credit: 1/2  
 Prerequisite: None

## Music Theory 2

This class will continue where *Music Theory 1* left off. Students will explore triads, seventh chords relationships, and harmony. Students will work on projects that will be performed near the end of the semester. Students will be using the *Berklee College of Music Theory 2* book.

Grade: 9, 10, 11, 12  
 Course length: 1 semester (Spring)  
 Credit: 1/2  
 Prerequisite: *Music Theory 1*  
 or permission of instructor

## Painting

This course focuses on aesthetic and technical possibilities of paint, concentration on color theory and organization, various methods of paint application and surface preparation using tempera, acrylics, watercolors, gouache, pastels, and oils.

Grade: 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *Art 1*

## Photography

Students in *Photography* develop an understanding of the camera, photographing various subjects, film development and printing techniques in the dark room. Students are responsible for their own 35 mm camera (not a point-and-shoot) and have to cover a \$25 lab fee.

Grade: 11, 12  
 Course length: 1 semester  
 Credit: 1/2  
 Prerequisite: *Art 1* and  
 permission of the instructor

## Piano

This course offers private lessons in piano technique, music theory, sight-reading, and accompanying. Lessons are given once a week during study hall or after school. A limited number of lessons are available.

Grade: 9, 10, 11, 12  
 Course length: 1 semester  
 Credit: 1/4  
 Prerequisite:  
 Permission of the instructor

---

## Printmaking and Drawing 1

---

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *Art 1* and  
permission of instructor

Drawing and printmaking encompass a wide range of visual and technical possibilities. Drawing provides the foundation for development in the arts. Students will explore a variety of drawing mediums including graphite, colored pencil, pen and ink, clay-board, and pastels. Using the skills acquired in drawing, students will integrate printmaking techniques such as linoleum block printing, engraving, embossing, mono printing, and screen printing techniques.

---

## Printmaking and Drawing 2

---

Grade 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: *Printmaking 1* and  
permission of instructor

This is a continuation of *Printmaking and Drawing 1* but with a more in-depth study and higher standards for work produced.

---

## Select Choral Ensemble

---

Grade: 9, 10,11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: Audition and  
permission of instructor

In addition to the Holiday and Spring Concerts, this group performs at area schools and community organizations, alumni events, regional music festivals, and other performances. Admission is by audition and approval of the instructor. A positive and supportive attitude, attendance at all performances and rehearsals, and conscientious commitment to academic grades is required. The ensemble will learn a large volume of choral repertoire of varying styles, as well as sight-reading, and preparation for All State and District Chorus auditions. Students who play piano will have opportunities to learn accompaniment.

---

## Theater Design and Production

---

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: None

Students will learn the fundamentals of play production and directing, including hanging and focusing stage lights, running a lighting board, designing sets, costumes, and props, and directing their classmates in established plays and original student works. These students will design and produce 2 to 3 theater productions at LI each year. Acting students are encouraged to take this course to expand their knowledge of the theater and to try their hand at directing and stage production. Students who would like to be involved in theater but not on stage are also encouraged to take this course.

---

## Vocal Lessons

---

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1/4  
Prerequisite: Member of *Chorus* or  
*Select Chorus Ensemble*  
and permission of instructor

This course includes private lessons in vocal technique, ear training, correct breathing, musicianship, stage presence, posture, care of the vocal instrument, and preparation for performances and auditions. Music studied will be classical contest solos/arias, and/or musical theater songs. Lesson will be once a week during a study hall, or directly after school.



## **Annual Contests**

---

- All-State Music Festival
- Congressional Art Exhibit
- New England District Jazz Festival
- Northeast District Music Festival
- Patriotic Art Contest
- Photo Contests
- Starbound National Dance & Talent Competition
- UNH Jazz Festival
- VSAC Poster Contest

## **Extracurricular Opportunities**

---

- Concerts
- Dance Club (Hip-Hop, Jazz, Latin, Swing, Belly, Ballroom)
- Dance Performances
- Exhibits
- Forensics
- Musicals
- One-Act Plays
- Parades
- Pulse Dance Company
- Talent Shows
- Tap Dance Club

## **Special Opportunities**

---

- All-New England Band Festival
- Concerts
- Guest Artists-in-Residence
- Tours
- Vermont State Dance Festival



## COURSES

<i>Comprehensive Health</i> .....	40
<i>Freshman Physical Education</i> .....	40
<i>Introduction to Exercise Science</i> .....	40
<i>Introduction to the Outdoors</i> .....	40
<i>Lifetime Wellness</i> .....	40
<i>Personal Fitness</i> .....	41
<i>Recreational Physical Education</i> .....	41
<i>SWEAT</i> .....	41
<i>Team and Individual Pursuits</i> .....	41
<i>VT Recreational Safety Certification</i> .....	41

## EXTRACURRICULAR OPPORTUNITIES

<i>Alpine Skiing</i> .....	Boys & Girls
<i>Baseball</i> .....	Boys
<i>Basketball</i> .....	Boys & Girls
<i>Cheerleading</i> .....	Coed
<i>Cross Country Running</i> .....	Boys & Girls
<i>Field Hockey</i> .....	Girls
<i>Football</i> .....	Boys
<i>Golf</i> .....	Boys & Girls
<i>Ice Hockey</i> .....	CoEd
<i>Nordic Skiing</i> .....	Boys & Girls
<i>Soccer</i> .....	Boys & Girls
<i>Softball</i> .....	Girls
<i>Track &amp; Field</i> .....	Boys & Girls

## GRADUATION REQUIREMENTS

Students are required to earn 2 credits of physical education to qualify for graduation from Lyndon Institute. Students may earn up to one full physical education credit through participation in school sponsored extra curricular sports (excluding club activities), 1/4 credit is awarded for successful completion of one season of sport. A 1/2 credit of physical education can also be earned through successful completion of a semester dance course. Students must earn 1/2 credit of health education.

## PHILOSOPHY

The physical education program offers students a wide variety of sport, recreational, and fitness activities to encourage interest in physical well being for life. Participation in physical education enhances students' ability to perform athletically and socially in the high school environment. Comprehensive Health ensures that all students are equipped to make informed decisions about their personal health care, and seeks to broaden students' comprehension of health issues on a local and global scale.

## CLASSROOM CLIMATE

Students participate with enthusiasm to the best of their ability in a wide variety of activities. Offerings include, but are not limited to: badminton, tennis, volleyball, cooperative activities, new games, personal fitness, golf, bowling, and archery. Students should be properly attired for all activities. Health classes are co-educational and presented in an atmosphere of sharing and respect.

## FACILITIES

- 2 Gymnasiums
- 8 Sports Fields
- 6-Lane All-Weather Track
- Weight & Fitness Center
- Chester Ice Arena (owned by town)



## HEALTH & PHYSICAL EDUCATION COURSE SEQUENCES

9TH	10TH	11TH	12TH
• <i>Freshman Physical Education*</i>	• <i>Physical Education Equiv.</i> • <i>Comprehensive Health*</i>	• <i>Physical Education Equiv.</i> • <i>Comprehensive Health*</i>	• <i>Physical Education Equiv.</i> • <i>Comprehensive Health*</i>

\* State requirement for graduation

## Comprehensive Health Education

Students become aware of how their physical, emotional and social health are connected and how personal decisions and lifestyle habits impact their health. Topics include communication, decision-making, body systems, fitness, nutrition, aging, death and dying, diseases, human sexuality, and drug awareness. This course will broaden students' knowledge in health topics and allow them to analyze their personal responsibilities in maintaining their own wellness.

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

## Freshman Physical Education

The Physical Education Program provides opportunities to explore and participate in a wide variety of sport, fitness, and recreational activities for individual, dual, team, and carryover experience. Emphasis throughout the program is on acquiring the skills necessary to maintain life-long interest and participation in athletic and recreational pursuits. Physical Education is a Vermont state requirement for graduation.

Grade: 9  
Course length: 1 semester  
Credit: 1/2

## Introduction to Exercise Science

This course is intended to provide a background in Exercise Physiology and Kinesiology to students who are interested in pursuing a career in the health care field or the allied health science industry. Students will study how and why the body performs and reacts the way it does before, during, and after exercise. Medical terminology and a comprehensive study of functional anatomy will also be incorporated into this course.

### *College Prep*

Grade: 10, 11, 12  
Course length: 1 semester (Spring)  
Credit: 1/2  
(Counts as PE or Science credit)  
Prerequisite: *Biology*

## Introduction to the Outdoors: Leadership and Preparedness

This course will adequately prepare students to comfortably and competently travel in the backcountry of Vermont on their own, as well as leading others, while appropriately managing relevant risks and hazards. Additionally, the hope is that this course will foster a greater understanding and appreciation for one's natural surroundings.

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite:  
*Freshman Physical Education*

## Lifetime Wellness

This course will foster skills that students can use throughout their adult lives to make optimal decisions around personal health and well-being. Course components will include planning and budgeting for healthy food choices, accessing local health and fitness resources, managing emotional and physical health care, and studying the impact of environmental issues on personal health. Students will have the opportunity to become certified in First Aid and CPR and will develop personal health plans. Every Friday will focus on fitness activities.

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2 (May count as PE elective)  
Prerequisite:  
*Comprehensive Health Education*

## Personal Fitness

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

This course introduces students to the basic fundamental concepts of personal fitness. Emphasis is placed on personal physical fitness for maintaining a healthy lifestyle. Course content includes: exercise sciences; screening and evaluation; methods of training; goal setting; program design; and program implementation. Students are expected to develop and implement an individual fitness program. Students will analyze the impact of diet, exercise, stress management, health, and other areas of total wellness on the quality of life. Students will examine their personal health risk, complete a personal fitness and nutritional assessment, as well as pursue an individual exercise prescription program. Hands-on experiences and exposure to the use of modern modes of fitness assessment are included in the course.

## Recreational Physical Education

Grade: 11, 12  
Course length: 1 semester  
Credit: 1/2 (Counts as PE elective)  
Prerequisite:  
*Freshman Physical Education*

This course has been created to give students an opportunity for movement and recreational interaction during the school day. The curriculum for this course will focus on local recreational and sporting activities that create avenues for lifetime fitness and well being.

## SWEAT (Student Weight Management Activity Team)

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1/2

*SWEAT* is a course designed for those students who are seriously interested in supporting their own efforts in weight management and/or maintenance. Students focus on increasing their own physical health and set personal fitness goals. Classes focus on exercise, nutrition education, and weekly personal weigh-ins.

## Team and Individual Pursuits

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2 (Counts as PE elective)  
Prerequisite:  
*Freshman Physical Education*

This Physical Education course provides opportunities to explore and participate in a wide variety of sport, fitness, and recreational activities for individual, dual, team, and carryover experience. This course is designed to be an extension of *Freshman Physical Education*, building a greater level of proficiency, skills, and enjoyment in a wide variety of lifetime pursuits. Students will also have the opportunity to explore and experience new subject matters and aspects of physical education. It is our goal that the experience of this course will contribute to a successful and healthy life.

## Vermont Recreational Safety Certification

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

This course is designed to provide Lyndon Institute's students with opportunity to obtain the four major outdoor recreation safety certifications: *Vermont Snowmobile Safety Certification*, *Vermont ATV Safety Certification*, *Vermont Hunter Safety*, and *Vermont Boater Safety*. The Physical Education Department believes that these four certifications are well aligned with our philosophy of building a greater level of proficiency, skills, and enjoyment in a wide variety of lifetime pursuits. Each of these certifications opens a new avenue to explore Vermont's recreation heritage and enjoy the Vermont outdoors.



## Extracurricular Opportunities

- *Alpine Skiing* ..... Boys & Girls
- *Baseball* ..... Boys
- *Basketball* ..... Boys & Girls
- *Cheerleading* ..... Coed
- *Cross Country Running* ..... Boys & Girls
- *Field Hockey* ..... Girls
- *Football* ..... Boys
- *Golf* ..... Boys & Girls
- *Ice Hockey* ..... Coed
- *Nordic Skiing* ..... Boys & Girls
- *Soccer* ..... Boys & Girls
- *Softball* ..... Girls
- *Track & Field* ..... Boys & Girls



## COURSES

*French 1, 2, 3, 4, 5* ..... 44

*Japanese 1, 2, 3* ..... 44, 45

*Latin 1, 2, 3, 4* ..... 45, 46

*Spanish 1, 2, 3, 4* ..... 46

## COMPETITIONS

- National Latin Exam
- Latin Day

## EXTRACURRICULAR OPPORTUNITIES

- French Club
- Latin Club
- Spanish Club
- Trips to France, Mexico, and Quebec

## GRADUATION REQUIREMENTS

Not required for graduation, but languages are recommended for all college-bound students

## PHILOSOPHY

Familiarity with a foreign language enhances our lives in a myriad of ways, and LI's language faculty pride themselves on offering a full complement of courses suited to the needs of all students. Learning to converse, read, and write in a second language requires strong self-discipline and fosters compassion and cultural curiosity. The discovery of new ways to express oneself opens exciting new worlds. Students develop confidence and technical knowledge of grammar which helps them in other areas of study.

## CLASSROOM CLIMATE

Anyone who has studied a foreign language knows that repetition and practice are the keys to comprehension and retention of vocabulary and grammar, and to the development of proper intonation. Written homework is required regularly, and quizzes are a frequently-used method of assessing progress. Listening and speaking skills are honed in class discussion. Each instructor in languages also emphasizes cross-cultural comparison and study. Feasts and family traditions, holidays and history, customs and culture are all major areas of language study at LI.

## MINIMUM GRADE FOR ADVANCEMENT

The minimum grade to advance to the next level in languages shall be C for levels 1 & 2 and B- for levels 3 & 4 (or teacher's recommendation).

## FOREIGN LANGUAGE COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>French 1, 2</i></li> <li>• <i>Spanish 1</i></li> <li>• <i>Latin 1</i></li> <li>• <i>Japanese 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>French 1, 2, 3</i></li> <li>• <i>Spanish 1, 2</i></li> <li>• <i>Latin 1, 2</i></li> <li>• <i>Japanese 1, 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>French 1, 2, 3, 4</i></li> <li>• <i>Spanish 1, 2, 3</i></li> <li>• <i>Latin 1, 2, 3</i></li> <li>• <i>Japanese 1, 2, 3</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>French 1, 2, 3, 4, 5</i></li> <li>• <i>Spanish 1, 2, 3, 4</i></li> <li>• <i>Latin 1, 2, 3, 4</i></li> <li>• <i>Japanese 1, 2, 3</i></li> </ul>

## French 1

### *College Prep*

This is a success-oriented approach to French that emphasizes speaking and listening skills developed through student interaction and hearing native speakers on CD and videotape. Writing and reading skills are developed.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## French 2

### *College Prep*

Continued emphasis is placed on speaking and listening skills, as well as fundamental grammar and writing. Students progress from basic sentence structure to the more complex paragraph. Continued use is made of the textbook, exercise book, and tapes.

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *French 1*

## French 3

### *College Prep*

Speaking and listening skills continue to be emphasized, along with vocabulary and grammar. Students express abstract ideas in the language, often for the first time. Students are expected to speak French in class as part of the overall evaluation rubric.

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *French 2*

## French 4

### *Advanced College Prep*

Students study poetry and prose, creatively write, continue to build vocabulary and grammar skills, and are expected to speak French at all times.

Grade: 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *French 3*

## French 5 Honors

### *Advanced College Prep*

Emphasis is on spoken French, grammatical structures, and writing through the study of literature, including poetry. Students are required to speak French at all times in class.

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: B- average in *French 4*  
or instructor's recommendation

## Japanese 1

### *College Prep*

This course will focus on the basics of speaking, listening, reading and writing. Students will also learn simple grammatical structures, key phrases, and vocabulary. By the end of the course, students will also have mastered the hiragana and katakana alphabets. In addition to these skill areas, students will begin to learn about Japanese culture through readings, discussions, and activities.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## **College Prep**

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Japanese 1*

## **Japanese 2**

Emphasis is placed on continued development of the four skills: speaking, listening, reading, and writing. Students will be expected to read and write the hiragana and katakana alphabets in class. Students will also learn to read and write 100 Kanji characters. In addition, grammatical structures, key phrases, and additional vocabulary will be studied in this class. Video tapes and classroom projects will be used to supplement the text.

## **College Prep**

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Japanese 2*

## **Japanese 3**

In this course, the four skills continue to be stressed with emphasis placed on communicative activities. Students will be expected to read and write hiragana, katakana, and kanji. Upon successful completion of this course, students will be able to read and write 250 kanji characters. More advanced grammatical structures and key phrases will be studied. In addition, Japanese comic books, music, and anime videos will supplement the text.

## **College Prep**

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## **Latin 1**

*Latin 1* introduces students to Latin grammar and enriches their understanding of English grammar and word derivation. The world of the ancient Romans is also explored with units focusing on Greek and Roman culture and mythology.

## **College Prep**

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Latin 1* or by testing

## **Latin 2**

*Latin 2* completes the grammar-based approach to the language as students learn more advanced constructions. Short, slightly-adapted passages of classical literature are also studied, along with units focusing on Roman history.

## **College Prep**

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Latin 2*

## **Latin 3**

*Latin 3* concentrates on prose authors of the Roman world, with a special emphasis on the works of Cicero and Julius Caesar. Students translate and interpret selected Latin passages. Their understanding is strengthened by reading these works in their entirety in English, along with supplemental media resources. In keeping with the classical tradition, students also begin to learn ancient Greek. During the second semester Latin poetry also may be introduced with reading selections from Ovid.



## Latin 4

### *Advanced College Prep*

*Latin 4* focuses on works of poetry from Roman authors, particularly Catullus, Horace, and Virgil. The second semester concentrates on Virgil's *Aeneid*. Students also continue a supplemental study of ancient Greek, translating and interpreting passages adapted from Greek literature.

Grade: 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *Latin 3*

## Spanish 1

### *College Prep*

This is an introductory course with attention devoted to building a solid foundation in a second language as students learn vocabulary, grammar, verb forms, and social amenities. This course is designed to inspire students and allow them to thrive in a Spanish-speaking environment as they begin speaking in Spanish immediately and start honing their pronunciation. Listening comprehension as well as reading and writing skills are also a major focus. Video and audio tapes as well as projects will supplement the primary textbook. Additional exposure to the language comes from film and music.

Grade: 9, 10, 11, 12  
 Course length: 1 year  
 Credit: 1

## Spanish 2

### *College Prep*

In the second year, a continued emphasis is placed on speaking proficiency and listening comprehension as well as grammar acquisition through writing and reading. A study of Hispanic culture is conducted by exploring where and how the language is spoken, using such media as film, music, and current events. Audio and video tapes as well as classroom projects are used to supplement the textbook.

Grade: 10, 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *Spanish 1* and/or  
 recommendation of Spanish instructor

## Spanish 3

### *College Prep*

While reading and writing skills continue to be stressed in the third year, additional emphasis is placed on listening comprehension and conversational speaking. The majority of classroom teaching and student interaction is in Spanish. Outside sources consist of fables, short stories, excerpts from novels, and current events articles. Additional material will come from film, music, as well as dialogue from radio and television programs. Activities may include writing newspaper articles, performing skits, and making videos.

Grade: 11, 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *Spanish 2* and/or  
 recommendation of Spanish instructor

## Spanish 4

### *Advanced College Prep*

At this level, classes are conducted primarily in Spanish and students are expected to speak Spanish at all times. Daily activities will incorporate presentational and interpersonal speaking opportunities as well as formal and informal writing responses in a weekly journal. The ability to correctly express more complex statements and opinions through speaking and writing is a focus. A comprehensive review of grammar is made while studying additional types of literature, including folk tales, novellas, poetry, and song lyrics. Native speakers come to visit the classroom to share and interact. Students are exposed to various media resources in Spanish, such as film, radio, and television, to improve their fluency.

Grade: 12  
 Course length: 1 year  
 Credit: 1  
 Prerequisite: *Spanish 3* and/or  
 recommendation of Spanish instructor

## ALLIED HEALTH

<i>First Responder</i> .....	50
<i>Licensed Nursing Assistant Program</i> .....	52

## AUTOMOTIVE TECHNOLOGY

<i>Automotive Technology 1, 2</i> .....	49
<i>Introduction to Automotive Technology</i> .....	51
<i>Physics</i> .....	22
<i>Small Engine Repair</i> .....	53
<i>Technical Math</i> .....	17

## BUSINESS TECHNOLOGY

<i>Accounting</i> .....	49
<i>Business Math</i> .....	16
<i>Introduction to Business</i> .....	51
<i>Microeconomics</i> .....	26
<i>Writing and the Workplace</i> .....	10

## COMPUTER SCIENCE

<i>Computer Applications</i> .....	50
<i>Computer Programming</i> .....	50

## COOPERATIVE EDUCATION

<i>Cooperative Education</i> .....	50
------------------------------------	----

## GRAPHIC ARTS

<i>Graphic Arts</i> .....	51
---------------------------	----

## HUMAN SERVICES

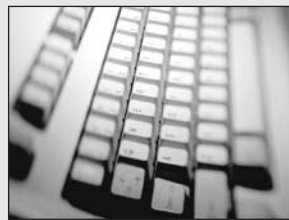
<i>Human Services Careers</i> .....	51
-------------------------------------	----

## MANUFACTURING & CONSTRUCTION

<i>Introduction to Precision Machining</i> .....	51
<i>Introduction to Welding 1, 2</i> .....	52
<i>Introduction to Woodworking</i> .....	52
<i>Precision Machining</i> .....	52
<i>Welding/Metal Fabrication 1, 2</i> .....	53

## TECHNICAL DRAFTING

<i>Architectural Drafting 1, 2</i> .....	49
<i>Basic Drafting</i> .....	50
<i>Pre-Engineering Graphics</i> .....	52
<i>Technical Drafting 1, 2</i> .....	53



## INTRODUCTION

Technical Education courses provide students with the opportunity to develop skills that will prepare them for continued study in college and/or get them started on a specific career path. Students may choose from a variety of courses that vary in length and range from introductory courses to more advanced, in-depth course offerings. These courses give students the opportunity to learn about careers in architectural and technical engineering, business management, computer technology, education, health care, automotive technology, manufacturing, and more. Some courses in the technical education field may be taken in conjunction with college preparatory courses.

All technical students are encouraged to participate in SkillsUSA (a student leadership organization).

## PHILOSOPHY

Lyndon Institute's Technical Education is dedicated to providing applied learning instruction to prepare students for careers in technology. The Technical Education faculty recognize the critical need in today's work force for employees with high tech skills. It is our mission to prepare students for post-secondary technical education as well as for entry-level technical positions in the career field of their choice.

## CLASSROOM CLIMATE

Classrooms and the associated lab/shop facilities are spacious and well-equipped. Students are expected to respect the need for safety first. The proper use and care of tools and equipment is emphasized as well as team work with classmates and instructors.

# TECHNICAL EDUCATION COURSE SEQUENCES

9TH	10TH	11TH	12TH
<b>ALLIED HEALTH</b>			
		<ul style="list-style-type: none"> <li>• <i>First Responder</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>First Responder</i></li> <li>• <i>Licensed Nursing Assistant Program</i></li> </ul>
<b>BUSINESS MANAGEMENT TECHNOLOGY*</b>			
	<ul style="list-style-type: none"> <li>• <i>Introduction to Business</i></li> <li>• <i>Computer Applications</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Business</i></li> <li>• <i>Business Math</i></li> <li>• <i>Accounting</i></li> <li>• <i>Microeconomics</i></li> <li>• <i>Writing and the Workplace</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Introduction to Business</i></li> <li>• <i>Business Math</i></li> <li>• <i>Accounting</i></li> <li>• <i>Microeconomics</i></li> <li>• <i>Writing and the Workplace</i></li> </ul>
<b>COMPUTER SCIENCE</b>			
	<ul style="list-style-type: none"> <li>• <i>Computer Applications*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Computer Applications*</i></li> <li>• <i>Computer Programming*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Computer Applications*</i></li> <li>• <i>Computer Programming*</i></li> </ul>
<b>COOPERATIVE EDUCATION</b>			
			<ul style="list-style-type: none"> <li>• <i>Cooperative Education</i></li> </ul>
<b>GRAPHIC ARTS</b>			
		<ul style="list-style-type: none"> <li>• <i>Graphic Arts*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Graphic Arts*</i></li> </ul>
<b>HUMAN SERVICES</b>			
		<ul style="list-style-type: none"> <li>• <i>Human Services Careers*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Human Services Careers*</i></li> </ul>
<b>AUTOMOTIVE TECHNOLOGY</b>			
<ul style="list-style-type: none"> <li>• <i>Intro to Auto Technology</i></li> <li>• <i>Small Engine Repair</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Intro to Auto Technology</i></li> <li>• <i>Small Engine Repair</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Intro to Auto Technology</i></li> <li>• <i>Small Engine Repair</i></li> <li>• <i>Automotive Technology 1*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Intro to Auto Technology</i></li> <li>• <i>Small Engine Repair</i></li> <li>• <i>Automotive Technology 1*</i></li> <li>• <i>Automotive Technology 2*</i></li> </ul>
<b>MANUFACTURING TECHNOLOGY</b>			
<ul style="list-style-type: none"> <li>• <i>Intro to Precision Machining</i></li> <li>• <i>Intro to Welding 1, 2</i></li> <li>• <i>Intro to Woodworking</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Intro to Precision Machining</i></li> <li>• <i>Intro to Welding 1, 2</i></li> <li>• <i>Intro to Woodworking</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Intro to Precision Machining</i></li> <li>• <i>Intro to Welding 1, 2</i></li> <li>• <i>Intro to Woodworking</i></li> <li>• <i>Precision Machining*</i></li> <li>• <i>Welding/Fabrication 1*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Intro to Precision Machining</i></li> <li>• <i>Intro to Welding 1, 2</i></li> <li>• <i>Intro to Woodworking</i></li> <li>• <i>Precision Machining*</i></li> <li>• <i>Welding/Fabrication 1*</i></li> <li>• <i>Welding/Fabrication 2*</i></li> </ul>
<b>TECHNICAL DRAFTING</b>			
<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> <li>• <i>Architectural Drafting 1</i></li> <li>• <i>Technical Drafting 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> <li>• <i>Architectural Drafting 1</i></li> <li>• <i>Architectural Drafting 2</i></li> <li>• <i>Technical Drafting 1</i></li> <li>• <i>Technical Drafting 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Basic Drafting</i></li> <li>• <i>Architectural Drafting 1</i></li> <li>• <i>Architectural Drafting 2</i></li> <li>• <i>Technical Drafting 1</i></li> <li>• <i>Technical Drafting 2</i></li> <li>• <i>Pre-Engineering Graphics</i></li> </ul>

\* These courses have received state approval.

## Accounting

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Business Math* or  
*Algebra 1, Part 1*

This course introduces students to the field of accounting. It is recommended for students who desire a strong background in accounting for business and personal reasons. A simulation is used each semester to reinforce accounting principles. This course is excellent preparation for business courses in college.

## Architectural Drafting 1

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Basic Drafting*

*Architectural Drafting 1* is a course with emphasis on residential structures and light-frame construction. Students will prepare working drawings and specifications for residences using standard design considerations and architectural symbols using CAD (computer-aided design) with DataCAD software.

## Architectural Drafting 2

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Architectural Drafting 1*

*Architectural Drafting 2* continues where *Architectural Drafting 1* ends, with emphasis on structures and light frame construction. Students will prepare working drawings and specifications for residences using standard design considerations and architectural symbols using CAD (computer-aided design) with DataCAD software.

## Automotive Technology 1

Grade: 11, 12  
Course length: 1 year,  
three-period class daily  
Credits: 3  
Recommended: *Technical Drafting*,  
*Introduction to Welding*,  
*Technical Math*, and *Physics*

*Automotive Technology 1* introduces students to basic theory and operation of the automobile, and is intended to prepare students to enter the field of automotive service or enrollment in a related technical college or school upon graduation. Emphasis is placed on safe work practices and habits essential for success in the workplace. Students are taught the theory of various systems, along with repair and use of manuals and other publications, using lecture, demonstration, video presentation, and hands-on instruction. Contact with car owners, automotive parts suppliers, and car dealers is also a part of student training.

## Automotive Technology 2

Grade: 12  
Course length: 1 year,  
three-period class daily  
Credits: 3  
Prerequisite: *Automotive Technology 1*  
or permission of instructor

This course is a continuation of *Automotive Technology 1*. Students will continue the study of the automobile systems. They will learn theory, diagnosis, and repair techniques. While the emphasis will be on honing the skills they learned in *Automotive Technology 1*, the student will be instructed in the use of on-board diagnostic systems and scanners to diagnose computer systems on today's automobiles. This course is based on the skills required for ASE (Automotive Service Excellence) certification.

## Basic Drafting

This course deals with the basic level drafting skills. Emphasis is placed on neatness and accuracy of student's work and on the development of student perceptual skills. Students will develop perceptual and drafting skills to produce multi-view, pictorial-view, sectional-view drawings and working drawings. They will also receive introduction to CAD (computer-aided design).

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## Computer Applications

This course provides a foundation in the basic concepts of the electronic applications of an information processing system. In addition to becoming familiar with the basics of the *Microsoft Windows* operating system, students will develop skills in the most commonly used *Microsoft Office* applications: *Word* (word processing), *Excel* (spreadsheets), *Access* (database), *Powerpoint* (presentations), and Microsoft Outlook (for managing information). *Publisher* (desktop publishing) and *Frontpage* (web page design) will also be introduced. The ability to follow oral and written instructions, work independently, manage time efficiently, and proofread carefully will be emphasized as students strive to produce professional-quality work.

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: None

## Computer Programming

Designed for students who desire a technology career, *Computer Programming and Technology* includes PC troubleshooting & repair, and preparation for MOUS, A+, and/or Network+ industry certification. *Microsoft Office* applications will be taught, as will web graphics and web page design. Networking protocols, operating systems, media, and topologies and programming in C++, HTML, and Java are included in this course.

Grade 11, 12  
Course length: 1 year  
Credits: 1-2  
Prerequisite: *Algebra 1*, *Algebra 2* (or current enrollment), and one computer course; or permission of instructor

## Cooperative Education

*Cooperative Education* is a joint effort between the school and the local business community to provide on-the-job learning experiences while students are still in school. All students in the 12th grade are eligible to participate. The program offers this training opportunity to seniors who exhibit aptitude and interest in their chosen area. Interested students may learn about the program by contacting the Cooperative Education Coordinator through Student Services or the Technical Education office.

Grade: 12  
Prerequisite: Permission of the Technical Education Department and Student Services

## First Responder

This is a one-semester, 2-period course for students interested in achieving First Responder status. In this course students will learn to assess a patient and determine what medical care is necessary. This level of First Aid training is a minimum requirement for all Police and Fire Departments. Students will be certified through the American Heart Association at the Health Care Provider level. Class includes a book, practical materials, and exam. Upon successful completion of the course, the student will receive a course completion card valid for three years.

Grade: 11, 12  
Course length: 1 semester, 2 periods  
Credit: 1  
Prerequisite: None

---

## Graphic Arts

---

Grade: 11, 12  
Course length: 1 year  
Credits: 3  
Prerequisite: *Introduction to Studio Art*  
and *Computer Applications*

*Graphic Arts* is a 3-period technical program that emphasizes advertising, web design, publishing, fine arts printing, animation, and a variety of other applications, using the latest version of *Adobe Creative Suite*. The student will learn to create the professional results that are expected in today's industry. Careers in the graphic arts can offer satisfying jobs with unlimited potential for advancement.

---

## Human Services Careers

---

Grade: 11, 12  
Course length: 1 year,  
three-period class daily  
Credits: 3  
Recommended: *Biology*,  
*Health Education*

This course is for students who are interested in careers relating to infant/early childhood development and elder care services. Students will develop foundation skills in Human Services Careers in accordance with a State Department of Education approved Competency and Task List. In addition to classroom work, students will participate in a variety of field experiences to observe professionals in their workplace and to discuss career opportunities and employer expectations.

---

## Introduction to Automotive Technology

---

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

*Introduction to Automotive Technology* is designed to introduce students to the basic theory, operation and systems of the automobile. Emphasis is placed on safe work habits and habits essential for success in the workplace. Instruction is a combination of lecture and hands-on experience.

---

## Introduction to Business

---

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1

Students are introduced to the real world of business from the ground up and are exposed to entrepreneurship as a rewarding career path. By undertaking an individual business plan project, students will learn to integrate the concepts of planning with starting a new business.

---

## Introduction to Precision Machining

---

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

*Introduction to Precision Machining* is designed to instruct and expose students to various types and levels of positions in the CNC field. Students will learn appropriate safety practices in the class and for industry; use math such as decimals, fractions, and basic trigonometry as it applies to the programming; and will use Surfcam software to draw and complete the assigned projects. Development of successful work ethics, cooperation, and a sense of pride will be incorporated into the course.

## Introduction to Welding 1

*Introduction to Welding 1* is recommended to students interested in careers associated with manufacturing and fabrication. Studies focus on materials production, properties and use. Students use tools and machinery to cut, form, and fasten a variety of metal material.

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

## Introduction to Welding 2

*Introduction to Welding 2* is offered as a continuation of *Introduction to Welding 1*. Students continue to learn about and use the tools and machinery to cut, form, and fashion a variety of metal material.

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite:  
*Introduction to Welding 1*

## Introduction to Woodworking

*Introduction to Woodworking* is a technological system that efficiently utilizes resources necessary to convert materials into consumer goods. Students utilize current manufacturing processes from the concept of product design to product completion. This process follows each step from Computer-Aided Design (CAD) of individual parts to CAD production of these parts, using wood and/or metal, to the final step of assembly. Students will also gain an understanding of career possibilities through these projects, field trips, and interaction with other curricular areas.

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

## Licensed Nursing Assistant Program

This program, focused on the older adult population, provides students with the classroom instruction and clinical experience necessary to take the Vermont Board of Nursing LNA exam, fourth marking period. Upon receiving licensure, students will spend the remainder of the second semester working in the community, in various health care settings. With their LNA license, students are prepared for employment or to continue their education in the nursing or health care field.

Grade: 12  
Course length: 1 year,  
3-period class daily  
Credits: 3  
Prerequisites: *Algebra 1* or equivalent,  
*Human Services Careers* preferred

## Pre-Engineering Graphics

*Pre-Engineering Graphics* is a CAD (Computer-Aided Design) course for all students interested in learning about an exciting field of computer applications. Students will use *DataCAD* and *CADKEY* software to create drafting projects.

Grade: 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Technical Drafting 2* or  
*Architectural Drafting 2*

## Precision Machining

This course will provide students with in-depth exposure to precision design manufacturing and the career opportunities available. Safety practices, blue print reading, use of Surfcam and Keycreator software, and math as it applies to the program development are included in the curriculum. Projects for skill software development will be assigned. Some of the projects will be for individual students and others will benefit the community.

Grade: 11, 12  
Course length: 1 year, 2 periods  
Credits: 2  
Prerequisite:  
*Introduction to Precision Machining*

## Small Engine Repair

Grade: 9, 10, 11, 12  
Course length: 1 semester  
Credit: 1/2

This course deals with learning the knowledge and skills related to small engine maintenance and repair through hand-on projects and activities. Each student and partner will receive an operating Briggs and Stratton single cylinder engine to work on, which they will disassemble and reassemble to proper working condition. A lab skills sheet will be marked on a daily basis for each skill completed and throughout the sessions in the lab.

## Technical Drafting 1

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Basic Drafting*

*Technical Drafting 1* continues where *Basic Drafting* ends. Students prepare more complex multi-view drawings, auxiliary view drawings, pattern developments, perspective pictorial drawings, and working (shop) drawings using *CADKEY* software.

## Technical Drafting 2

Grade: 11, 12  
Course length: 1 year  
Credit: 1  
Prerequisite: *Technical Drafting 1*

A continuation of *Technical Drafting 1*, students taking this course prepare more complex multi-view drawings, auxiliary view drawings, pattern developments, perspective pictorial drawings, and working (shop) drawings using *CADKEY* software. Emphasis is placed on local shop projects and advanced drafting techniques.

## Welding/Metal Fabrication 1

Grade: 11, 12  
Course length: 1 year,  
3-period class daily  
Credits: 3  
Prerequisite: *Basic Drafting*,  
*Introduction to Welding*,  
or permission of instructor

The first-year welding student is introduced to basic welding skills in gas welding, brazing, soldering, oxygen cutting, and stick arc welding. Basic equipment instruction in the use of grinders, drill presses, and others is introduced. Measuring tools are also introduced and include squares, micrometers, calipers, protractors, and compasses. Students also learn skills in scale drawing and design work, the properties of metals, the use of work orders, inventory sheets, materials lists, and estimation of cost sheets. Students interested in continuing their career preparation after high school may participate in the Tech Prep program.

## Welding/Metal Fabrication 2

Grade: 12  
Course length: 1 year,  
3-period class daily  
Credits: 3  
Prerequisite:  
*Welding/Metal Fabrication 1*  
or permission of instructor

Second-year welding students learn advanced welding skills in MIG, TIG, and Thermo Plastic welding, along with skill building in sheet metal work. The sheet metal work includes hands-on operation of metal brakes, squaring shears, power shears, rollers punches, and hand tools, with layout work, and blueprint reading. Students interested in the continuing their career preparation may participate in the Tech Prep program.



## **Annual Competitions**

---

- SkillsUSA competitions in drafting, welding, construction, auto mechanics, and computer science.
- Ford/AAA Student Auto Skills Challenge
- Future Business Leaders of America competitions

## **Certifications**

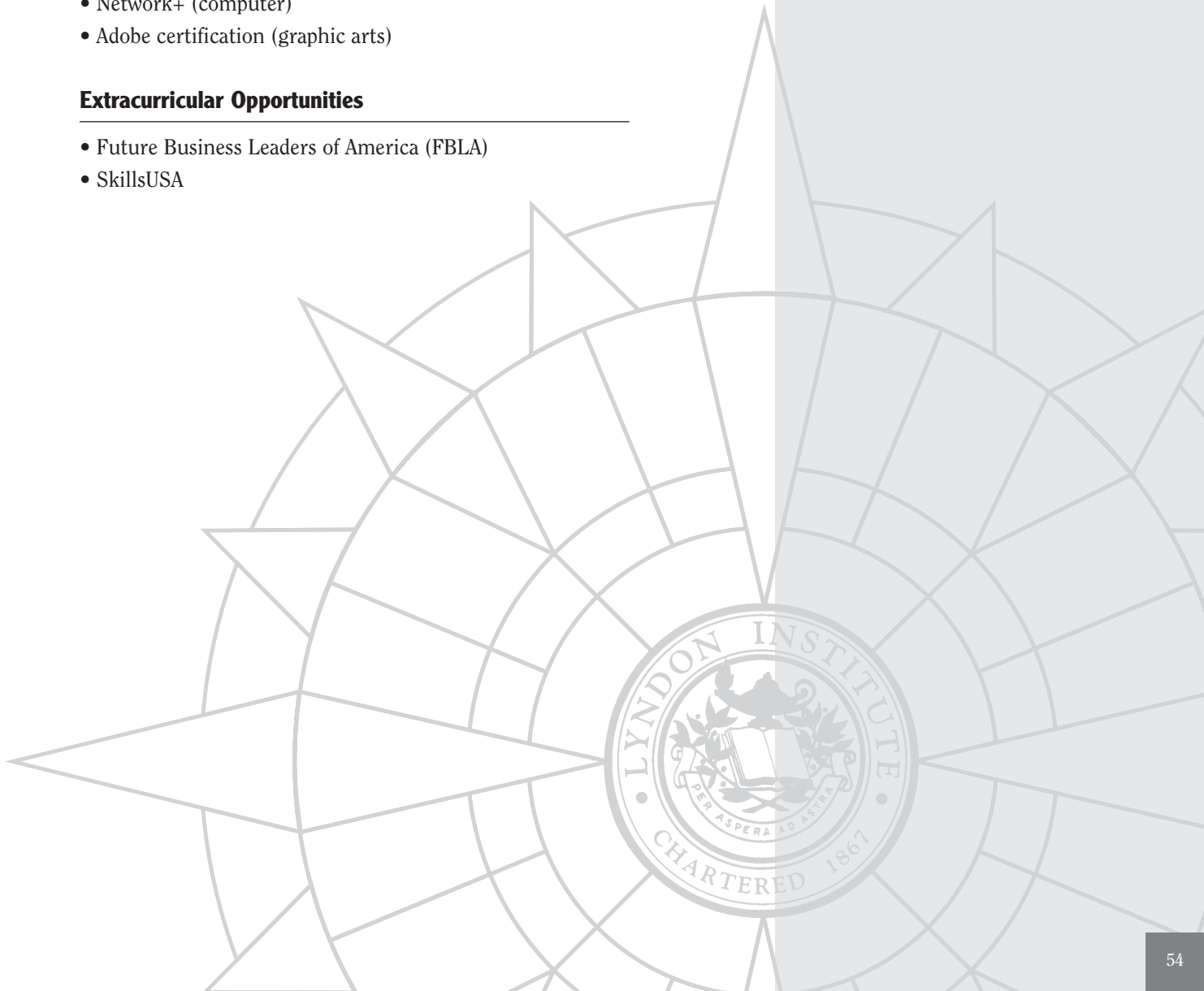
---

- General Service Technician (auto)
- American Welding Society
- Licensed Nursing Assistant
- Microsoft Office User Specialist (MOUS) (computer)
- A+ (computer)
- Network+ (computer)
- Adobe certification (graphic arts)

## **Extracurricular Opportunities**

---

- Future Business Leaders of America (FBLA)
- SkillsUSA



## ENGLISH

*Practical English* ..... 56  
*Remedial English* ..... 56  
*Remedial Reading* ..... 56

## MATHEMATICS

*Practical Math* ..... 56  
*Remedial Math* ..... 56

## SCIENCE

*Practical Biology* ..... 56  
*Practical Science* ..... 56

## SOCIAL STUDIES

*Practical Social Studies* ..... 56  
*Practical U.S. History* ..... \*  
*Remedial Consumer Economics* .... \*

## HEALTH & PHYSICAL EDUCATION

*Adaptive Physical Education* ..... \*  
*Remedial Health* ..... \*

## PHILOSOPHY

The Special Education programs at Lyndon Institute are designed to meet individual student's needs. The Special Education Department works to ensure that each student has the necessary skills to make the transition into the adult world.

Students enrolled in Special Education courses usually have either an Individualized Educational Plan (I.E.P.) or a 504 plan. All Special Education courses follow the general curriculum as specified by each department. However, each class is adapted to meet the individual needs of the student and the goals and objectives of the I.E.P. or 504 plan. (See courses listed with an asterisk in the course sequence below.) Students are enrolled in Special Education courses only on the recommendation of the Educational Placement/504 Team.

## CLASSROOM CLIMATE

Students participate in small classes that are designed to improve basic skills. These classes utilize a variety of techniques to enhance the learning experience.

### SPECIAL EDUCATION COURSE SEQUENCES

9TH	10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>Practical English 1</i></li> <li>• <i>Remedial English 1</i></li> <li>• <i>Remedial Reading</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical English 2</i></li> <li>• <i>Remedial English 2</i></li> <li>• <i>Remedial Reading</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical English 3</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical English 4</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Practical Math 1</i></li> <li>• <i>Remedial Math 1</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical Math 2</i></li> <li>• <i>Remedial Math 1, 2</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical Math 3</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical Math 4</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Practical Biology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical Biology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical Biology</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical Biology</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Practical Social Studies</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Practical U.S. History*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Remedial Consumer Economics*</i></li> </ul>	
<ul style="list-style-type: none"> <li>• <i>Adaptive Physical Education*</i></li> <li>• <i>Remedial Health*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Remedial Health*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Remedial Health*</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Remedial Health*</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>Community-Based Training</i></li> </ul>			

## Community-Based Training

This course provides highly individualized community-based experience, ranging from social activity to work experience.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: Assessed on an individual basis

## Practical Biology

This course is designed to simplify the concepts of biology. Topics of discussion include classification, animal biology, ecology, genetics, human reproduction, and evolution by natural selection.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## Practical English

Students learn about daily living skills, reading for information, reading for pleasure, written and oral expression, characteristics of sentences and paragraphs, how to write papers, creative writing, and listening skills.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## Practical Math

Students are introduced to basic computational skills, concepts involving money, time, estimating, measurement, using charts, graphs, schedules, and critical thinking.

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1

## Practical Social Studies

This course introduces students to basic geography. Students will develop map and global skills through hands-on activities. They will explore our local, Vermont, United States, and world geography. The course is designed to improve geographic awareness. Citizenship is also covered in this course of study.

Grade: 9  
Course length: 1 year  
Credit: 1

## Remedial English

This course is for students who have a deficit in the area of written language. Students must exhibit the ability to work independently. Emphasis is placed on correct spelling, proper sentence structure, grammar and paragraph writing. Students learn how to paraphrase and summarize information. Materials from content area courses provide the basis for reading and report writing.

Grade: 9, 10  
Course length: 1 year  
Credit: 1

## Remedial Math

Taking this course increases a student's understanding of basic math concepts. There is a review of skills for daily living, including measuring, map reading, and reading charts and graphs. Students learn whole number skills. The basic fraction concepts are taught as well as addition, subtraction, multiplication, and division of fractions. An introduction to decimals is also provided if time allows.

Grade: 9, 10  
Course Length: 1 year  
Credit: 1

## Remedial Reading

Students taking this course address individual reading difficulties. Learning focuses on specific skill development, and provides each student with strategies for success.

Grade: 9, 10  
Course length: 1 year  
Credit: 1

# Recommended Course Sequences

## COLLEGE PREPARATORY PROGRAM

Completion of the Lyndon Institute College Preparatory program provides excellent preparation for entry into American colleges or universities.

Credit expectations for college preparatory students typically exceed the 22 credits required for graduation from LI. Listed at right are three 4-year plans for three different levels of college or university.

Some examples of colleges and universities in New England at the different levels are:

### “Most-Competitive”:

Bates, Boston College, Brown, Colby, Cornell, Dartmouth, Harvard, Johns Hopkins, Middlebury, New York University.

### “Highly-Competitive”:

Babson, Boston University, Fordham, Northeastern, Syracuse.

### “Very-Competitive”:

Clark, Clarkson, St. Lawrence, St. Michael’s, University of Vermont.

### “Competitive”:

Castleton State, Champlain, Green Mountain, Keene State, Roger Williams, Suffolk, Southern Maine, Vermont Technical College, Wentworth Institute of Technology.

Note: Different levels of college rankings, i.e. “Most Competitive”, “Highly Competitive”, etc., are taken from *Barron’s Profiles of American Colleges Northeast, 16th Edition*.

## CAREER OR TECHNICAL EDUCATION PROGRAM

Completion of one of the Lyndon Institute Technical Education programs is excellent preparation for entry into a Certification Program, 2-year College, 4-year College, or the work force.

9TH

### PROGRAM FOR “MOST-COMPETITIVE” OR “HIGHLY-COMPETITIVE” COLLEGES & UNIVERSITIES

*Students interested in schools of this caliber should be taking the most rigorous curriculum LI offers: One course each year from the 4 core subject areas, a language (per the requirements of their chosen college or university), and 2 additional courses, for a total of 7 courses per year (as scheduling allows).*

**Testing Recommendations:** PSAT: Freshman, Sophomore, and Junior years in the Fall; SAT I: Junior year in May, Senior year in October (if needed for early decision) or November. Scores of 650 or higher (consult the college or university admissions requirements for minimums); SAT II (if required): Junior year in June; ACT: Junior year. Scores of 27+

- English 1 Honors
- Geometry Honors\* or Algebra 1 Honors
  - Biology Honors
- World Geography Honors
  - Language 1
- Physical Education
  - Elective (Arts)

\* Algebra 1 was completed in the 8th Grade

### PROGRAM FOR “VERY-COMPETITIVE” COLLEGES & UNIVERSITIES

*Students interested in attending “Very-Competitive” colleges or universities should be taking at least 6 courses per year: 4 core subject areas, 2 to 3 years of languages (per the requirements of their chosen college or university), and a variety of electives.*

**Testing Recommendations:** PSAT: Sophomore and Junior years in the Fall; SAT I: Junior year in May, Senior year in October (if needed for early decision) or November. Scores of 1100+ for Math and Reading combined (consult the college or university for specific requirements); ACT: Junior year (Spring) or Senior year (Fall). Scores of 25-28 composite

- English 1 Honors
- Algebra 1 Honors
  - Biology Honors
- World Geography Honors
  - Language 1
- Physical Education
  - Elective (Arts)

### PROGRAM FOR “COMPETITIVE” COLLEGES & UNIVERSITIES

*Students interested in attending “Competitive” colleges should be taking the standard College Prep curriculum of at least 6 courses per year: 4 core subject areas and Fine & Performing Arts and at least 2 years of languages.*

**Testing Recommendations:** PSAT: Sophomore and Junior years in the Fall; SAT I: Junior year in May or June, Senior year in November.

- English 1
- Algebra 1
  - Biology
- World Geography
- Physical Education
  - Elective (Arts)
- Elective or Study Hall

### PROGRAM FOR CAREER OR TECHNICAL EDUCATION

*Courses listed within this plan are only recommendations and should be individualized to meet each learner’s educational and career goals. Students wishing to pursue a 4-year degree should follow the College Preparatory listing while taking CTE classes as electives.*

- English 1
- Freshman Science
- World Geography
- Physical Education
- Introductory Technical Class
  - Elective or Study Hall

Course offerings subject to change.

# Recommended Course Sequences

10TH	11TH	12TH
<ul style="list-style-type: none"> <li>• <i>American Literature Honors</i></li> <li>• <i>Algebra 2 Honors or Geometry Honors</i></li> <li>• <i>Chemistry Honors</i></li> <li>• <i>World History Honors</i> <ul style="list-style-type: none"> <li>• <i>Language 2</i></li> </ul> </li> <li>• <i>Physical Education/Health</i></li> <li>• <i>Elective (Arts or Academic)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>English Literature Honors</i></li> <li>• <i>AP Calculus AB or Algebra 2 Honors</i></li> <li>• <i>Physics Honors or AP Chemistry</i> <ul style="list-style-type: none"> <li>• <i>AP U.S. History</i></li> <li>• <i>Language 3</i></li> </ul> </li> <li>• <i>P. E. (1 semester), Elective (1 semester)</i> <ul style="list-style-type: none"> <li>• <i>Elective (Arts or Academic)</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP English Composition or AP English Literature</i></li> <li>• <i>AP Calculus BC or AP Calculus AB</i></li> <li>• <i>AP Physics or AP Environmental Science or AP Chemistry</i> <ul style="list-style-type: none"> <li>• <i>AP European History</i></li> <li>• <i>Language 4</i></li> </ul> </li> <li>• <i>Elective (Arts or Academic)</i></li> <li>• <i>Elective (Arts or Academic)</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>American Literature Honors</i></li> <li>• <i>Geometry Honors</i></li> <li>• <i>Chemistry Honors</i></li> <li>• <i>World History Honors</i> <ul style="list-style-type: none"> <li>• <i>Language 2</i></li> </ul> </li> <li>• <i>Physical Education/Health</i></li> <li>• <i>Elective (Arts or Academic)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>English Literature Honors</i> <ul style="list-style-type: none"> <li>• <i>Algebra 2 Honors</i></li> <li>• <i>Physics Honors</i></li> <li>• <i>U.S. History Honors</i></li> <li>• <i>Language 3</i></li> </ul> </li> <li>• <i>P. E. (1 semester), Elective (1 semester)</i> <ul style="list-style-type: none"> <li>• <i>Elective (Arts or Academic)</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <i>AP English Composition or AP English Literature</i></li> <li>• <i>AP Calculus AB or Pre-Calculus</i></li> <li>• <i>AP Chemistry or AP Physics or AP Environmental Science</i></li> <li>• <i>Cont. U.S. History Honors or AP European History</i> <ul style="list-style-type: none"> <li>• <i>Language 4</i></li> </ul> </li> <li>• <i>Elective (Arts or Academic)</i></li> <li>• <i>Elective (Arts or Academic)</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>English 2 or English 2 Accelerated</i> <ul style="list-style-type: none"> <li>• <i>Geometry</i></li> </ul> </li> <li>• <i>Anatomy &amp; Physiology</i> <ul style="list-style-type: none"> <li>• <i>World History</i></li> </ul> </li> <li>• <i>Physical Education/Health</i></li> <li>• <i>Elective (Arts or Academic)</i> <ul style="list-style-type: none"> <li>• <i>Elective or Study Hall</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <i>Fantasy Lit/Sci Fi Lit or Contemporary Fiction/Contemporary Non-Fiction</i> <ul style="list-style-type: none"> <li>• <i>Algebra 2</i></li> <li>• <i>Chemistry</i></li> <li>• <i>U.S. History</i></li> <li>• <i>Language 1</i></li> </ul> </li> <li>• <i>P. E. (1 semester), Elective (1 semester)</i> <ul style="list-style-type: none"> <li>• <i>Elective (Arts or Academic) or Study Hall</i></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <i>Contemporary Fiction/Contemporary Non-Fiction or American Literature Honors</i> <ul style="list-style-type: none"> <li>• <i>Pre-Calculus</i></li> <li>• <i>Physics</i></li> </ul> </li> <li>• <i>Civics and Constitutional Law/Vermont History or Philosophy/Sociology</i> <ul style="list-style-type: none"> <li>• <i>Language 2</i></li> </ul> </li> <li>• <i>Elective (Arts or Academic)</i></li> <li>• <i>Elective (Arts or Academic) or Study Hall</i></li> </ul>
<ul style="list-style-type: none"> <li>• <i>English 2</i></li> <li>• <i>Algebra 1, Pre-Algebra or Technical Math</i> <ul style="list-style-type: none"> <li>• <i>Biology</i></li> <li>• <i>World History</i></li> </ul> </li> <li>• <i>Physical Education/Health</i></li> <li>• <i>Basic Drafting (fulfills Fine Arts req.)</i></li> <li>• <i>Introductory Technical Class</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Writing and the Workplace</i></li> <li>• <i>Algebra 1, Technical Math or Business Math</i> <ul style="list-style-type: none"> <li>• <i>U.S. History</i></li> </ul> </li> <li>• <i>3-Period Technical Class</i></li> <li>• <i>Phys Ed/Elective or Study Hall</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>English per Teacher Recommendation</i> <ul style="list-style-type: none"> <li>• <i>Math Elective</i></li> </ul> </li> <li>• <i>3-Period Technical Class (fulfills Science req.)</i> <ul style="list-style-type: none"> <li>• <i>Elective</i></li> </ul> </li> <li>• <i>Elective or Study Hall</i></li> </ul>

Note: International Students may be recommended to take ESOL classes instead of English classes.

## College Credit Courses at Lyndon State College

Grade: 12  
Course length: 1 semester  
Credit: 1/2

Students may enroll in courses not offered at Lyndon Institute which are relevant to career goals. To be eligible, students are required to: carry a B- average or better; have acquired 15 or more credits; have approval of the Headmaster, Student Services, and the LSC instructor; be approved by LSC on a class space-availability basis; and carry a full course load with combined high school and college courses. Students must provide their own textbooks and, in some cases, their own transportation.

## “Cynosure” (The Lyndon Institute Yearbook)

Grade: 9, 10, 11, 12  
Course length: 1 year  
Credit: 1/2

Students plan, design layout, sell advertising, write and edit copy, take photographs, read and edit proofs, and meet deadlines to produce the annual school yearbook. Basic desktop publishing using the *Yeartech* software program provided by Jostens, the publisher, is learned. The finished product is distributed in the spring.

## Driver Education

Grade: 10, 11, 12  
Course length: 1 semester  
Credit: 1/2  
Prerequisite: Valid Learner's Permit; minimum age of 15 years and six months

Class meets each semester for a minimum of 30 hours and students are scheduled for a minimum of 6 hours behind the wheel. The primary objective of the course is to foster safe driving habits and attitudes. This course fulfills the state requirement in order to obtain a valid driver's license while under the age of eighteen. Summer classes are available at no cost to the student if there is a demand. Seniors are given first preference.

## Student Aide Program

Grade: 10, 11, 12  
Course length: 1 year  
Credit: 1/2  
Prerequisite: Students must be enrolled in and receiving a passing grade in a minimum of five classes

Students help with clerical duties in the Main Office, Library, Infirmary, or External Affairs Office at school. Time is coordinated by the Student Services Office and the office or department where the student works.

## Work Experience

Grade: 9, 10, 11, 12  
Course length: Varies  
Credit: Varies  
Prerequisite: Recommendation and placement by the Educational Placement Team

This course is designed to help students maintain an acceptable academic standing. One-on-one intensive study skills training is available. Students are given the opportunity to explore job interests, abilities, and skills, and are assisted in finding a job. Necessary skills for job success, including problem-solving and decision-making skills, are taught.





# Lyndon

I N S T I T U T E

For more information, please contact:  
Lyndon Institute Office of Admissions  
College Road, P.O. Box 127, Lyndon Center, Vermont 05850  
*Phone* 802-626-5232  
*Email* [admissions@LyndonInstitute.org](mailto:admissions@LyndonInstitute.org)  
*Website* [www.LyndonInstitute.org](http://www.LyndonInstitute.org)