INTRODUCTION 3

GRADUATION REQUIREMENTS
GENERAL REQUIREMENTS 4
EARLY GRADUATION 4
COURSE COMPETENCIES 4
COURSE SELECTION/COURSE RECOMMENDATION 5

COURSE TYPES
HONORS COURSES 5
ADVANCED PLACEMENT COURSES 6
SENIOR PROJECT 6
RUNNING START 6
SNHU IN THE HIGH SCHOOL 6
PROCEDURE FOR COLLEGE COURSES (OFF-SITE FROM LHS). 6

COURSE INFORMATION
EXTENDED LEARNING OPPORTUNITIES 8
AUDITING COURSES 8
WITHDRAWAL FROM COURSES 8
REPORTING STUDENT GRADES 8
PARENT PORTAL AND STUDENT PORTAL THROUGH X2 8

GUIDANCE
GUIDANCE SERVICES 9
STUDENT RECORDS 9
ADMISSION TO POST-SECONDARY SCHOOLS 10
ARTICULATION AGREEMENTS 11
PORTFOLIOS 11

ALTERNATIVE EDUCATION
ADULT EDUCATION PROGRAM 12
SUMMER SCHOOL 12
LHS INCOMING FRESHMAN TRANSITION (LIFT) 12
GENERAL EDUCATION DEVELOPMENT (GED) 13

PROGRAMS AND SERVICES
VEHICLE AND PEDESTRIAN SAFETY (DRIVER EDUCATION)
LIBRARY MEDIA SERVICES
RESPONSE TO INTERVENTION (RTI TEAM)
SECTION 504 (Rehabilitation Act of 1973)
SPECIAL EDUCATION SERVICES
CO-CURRICULAR ACTIVITIES/ELIGIBILITY
NEW HAMPSHIRE SCHOLARS

CAREER CLUSTERS/PATHWAYS
ACADEMY OF FINANCE (AOF)
ATHLETIC TRAINING
BIOTECHNOLOGY TECH PREP PROGRAM
COMPUTER MAINTENANCE AND REPAIR.
FUTURE EDUCATORS ACADEMY
INFORMATION TECHNOLOGY
MASS COMMUNICATIONS
PROJECT LEAD THE WAY
TELEVISION PRODUCTION AT LONDONDERRY HIGH SCHOOL

CAREER AND TECHNICAL (CTE) SCHOOL

COURSES
Admin
Art
Business and Comp. Tech
English
ESOL
Family and Cons. Sciences
Foreign Language
Health
Mathematics
Music
Physical Education
Reading
Science
Social Studies
Special Education
Special Programs
Technology Education
MISSION STATEMENT

Londonderry High School, in partnership with parents and the community, provides a safe and nurturing environment with varied opportunities promoting good character, academic excellence, and responsible citizenship necessary for future success in the local and global community.

ACADEMIC EXPECTATIONS:

Students of Londonderry High School... - Demonstrate literacy through reading, writing, thinking and speaking effectively. - Apply critical thinking, research and problem solving skills to a changing world. - Function as self-directed learners in a variety of learning and working environments.

CIVIC EXPECTATIONS:

Members of the Londonderry High School community... - Demonstrate an awareness of their individual rights and responsibilities as contributing members of the larger community. - Exhibit school pride through support of school activities and involvement in community life. - Model ethical and lawful behavior as responsible and accountable citizens.

SOCIAL EXPECTATIONS:

Members of the Londonderry High School community... - Develop positive relationships, demonstrate tolerance, and respect diversity. - Interact cooperatively while working toward common objectives. - Promote personal wellness and the ability to make healthy choices.

A MESSAGE FOR STUDENTS

This Program of Studies has been thoughtfully designed to offer you a rich variety of courses that will challenge and engage you as learners. To earn a Londonderry High School diploma, you must accrue 24 credits and meet all academic requirements for graduation. Throughout the span of your high school career we also encourage you to take advantage of the opportunity to explore your personal interests and career goals. Discuss an academic plan with your parents and use the LHS administrative, teaching, and school counseling staff as a resource to implement that plan. Please carefully consider the courses that will meet your needs and assist you in taking the right steps toward a rewarding academic experience that will successfully prepare you for life beyond high school.

We have organized a sequence of courses through our Career Pathway Programs for students to pursue a career of interest, if inclined. These pathways will enable you to expand your knowledge and skills in ten professional fields. School Counselors work with Londonderry High School students of varying ability levels to review and participate in career pathways. We offer a cluster of courses in the careers of finance, athletic training, biotechnology, computer maintenance, teaching, information technology, mass communications, engineering, television production, and career and technical education. Successful completion of a career pathway leads to a certificate in that area and possible college credit in one or more courses. Through our Advanced Placement Course offerings, Running Start, and collegiate affiliations (SNHU, UNH College System), there are many opportunities to gain college credit taking high school courses.

Scheduling 1600 students in a high school is an arduous task. We build our master schedule and number of sections offered based upon the course selections you make in the spring. There is very little flexibility when it comes to making changes in courses, periods, and teachers once the school year begins. Schedule changes will only be made for scheduling errors (i.e., did not get a required course), misplacement in a level, or priority given to upperclassmen for credits needed toward graduation requirements. The elective courses you choose may not be available for you and other choices may be necessary. Acceptance in appropriate levels will be determined by teacher recommendation and past performance. If schedule changes are necessary, they should be addressed before the start of the fall semester. Please take the time now to discuss your plans for next year with your parents, teachers and
counselor because the decisions you make will be reflected in your schedule for next year. The entire staff of Londonderry High School is committed to providing you with an outstanding education. Good luck with your course selections.

Jason Parent
Principal

GENERAL REQUIREMENTS AND THE COURSE SELECTION PROCESS

In order to earn a Londonderry High School diploma, a student must accrue 24 credits along with all of the individual requirements. The school year is divided into two semesters: August to January and January to June. One credit (1.0) is earned by successfully completing a full-year course that meets for one 45-minute period each school day. One-half credit (0.5) is earned by successfully completing a half-year course that meets for one 45-minute period each school day. Students are required to pass all identified course competencies as well as earn a passing grade in a course to receive course credit. Students will be notified of course competencies by each teacher at the beginning of the semester and opportunities for remediation are available when needed. Independent Study credits will be evaluated on a case-by-case basis with approval of the student’s Assistant Principal. All students are academically and financially responsible for all the courses for which they register.

EARLY GRADUATION

Students desiring to complete their high school careers and graduation requirements at the end of 3 or 3 ½ years must make this request prior to scheduling classes for the last anticipated year of attendance. Requests for early graduation must be made in writing and signed by the parent/guardian and student. The burden of proof will rest with the student to justify why early graduation is necessary and in the student’s best interest. Forms are available in Main Guidance. Students leaving at the end of the 3 ½ years will not receive their diplomas until the scheduled graduation ceremony in June. Once approved, students graduating in three years will be allowed full senior status to include all activities and privileges normally accorded to seniors.

 COURSE COMPETENCIES

All classes have common course competencies, competency assessments and common grading methods for all courses identified in the Program of Studies. Teachers will communicate these competencies and competency assessments to students and parents via their syllabus, teacher web pages and X2. Competency Assessments will not change existing LHS grading practices. Student performance on initial competency assessments will be factored into quarter grades. If a student fails the competency assessment (59% or below), the student will be given multiple opportunities to earn the passing grade (60% or higher) but that initial grade will be the one used in quarter average calculations. Students and parents will be able to track their success on competency assessments through X2. Students must pass the class and pass all competency assessments in order to gain credit for the class. Students who fail a competency assessment have 5 weeks (25 school days) after the conclusion of a semester to make up failed competency assessments, as long as their semester average grade is 60% or higher. Semester two competencies are completed prior to the end of the school year.
COURSE SELECTION/COURSE RECOMMENDATION

As students meet with their counselor, course selections will be based on teacher recommendation, career choices, parent/guardian, student input, and Special Education Team input when applicable. Parents and students must realistically assess capabilities and ambitions. If there are any questions concerning a course or any doubts concerning success in a particular course, parents/guardians and students should discuss these concerns with the appropriate teacher, counselor, and/or Curriculum Coordinator. Emphasis must be placed on careful planning during the course selection period to assure that the attainment of the student’s goals is possible. Should a student wish to enroll in a course not recommended by the teacher, the student petitions the Curriculum Office for grades 10, 11, and 12 and the Director of School Counseling for grade 9. Please note that enrollment in some courses may be limited and courses may be eliminated in the event of low enrollment. Scheduling of classes for each school year begins early in the second semester of the preceding year. Each student, therefore, has at least six months prior to the opening of the school year in which to consider the courses he/she will be taking. In view of the lengthy period of time, there will be NO changes to student schedules after the opening of school except under the following conditions: - The student has been misplaced in a course. - The student has failed a prerequisite for a course now scheduled. - The student has a study period and wishes to add a class (depending on availability of classes). - A computer error in scheduling.

COURSE TYPES

HONORS COURSES

Courses that are labeled honors are designed to offer scholastic challenges to students whose academic records and personal motivation indicate a preparedness to take on the most rigorous course work. They require students to be independent and self-directed learners. Students who choose these courses need to have prior teacher approval (signature on the course selection form) and should check with the Curriculum Office for required summer projects. This process is subject to Curriculum Coordinator review as well. Honors classes are weighted in the grade point average computation. GPA and weighting take effect at the completion of a specific course and are based on final averages in the course. LHS honors courses reflect the following attributes: - Emphasis is placed on curriculum depth. - The curriculum is fast-paced and rigorous. - Independent research or independent project work is required. - Course emphasis is on synthesis and working with abstract ideas. Students in honors courses are expected to meet the following criteria: - When moving from a college preparatory level course to an honors level course, a minimum grade of B+ is required in the previously completed course. - Students who commit to honors level courses should realize their commitment is for a full semester in the honors course.
ADVANCED PLACEMENT COURSES

Londonderry High School offers eleven Advanced Placement (AP) courses. AP courses are offered through the College Board and therefore follow national curricula. The cost of one AP examination is approximately $90.00. Students taking AP courses are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. The benefits of taking AP exams are multiple. The AP exam fee is approximately 1/5 of a three credit college course; those students scoring a 3 or higher on any AP examination may receive college credits or advance into the second semester of required freshman course(s). Students have until June 15th of each school year to decide if they wish to send their score report to the college of their choice. For more information, contact the Director of School Counseling. AP courses include: CALCULUS AB, ENGLISH LANGUAGE, ENGLISH LITERATURE AND COMPOSITION, SPANISH LANGUAGE, EUROPEAN HISTORY, UNITED STATES GOVERNMENT AND POLITICS, COMPARATIVE GOVERNMENT, UNITED STATES HISTORY, PSYCHOLOGY, COMPUTER SCIENCE A, ENVIRONMENTAL SCIENCE, FRENCH LANGUAGE, STATISTICS, and STUDIO ART. Advanced Placement classes are weighted in the grade point average computation. GPA and weighting take effect at the completion of a specific course and are based on final averages in the course.

SENIOR PROJECT

The Senior Project allows students the opportunity to pursue a topic or idea of their choice with the guidance of a mentor along the way. The Senior Project provides students the ability to embody our mission statement as they truly function as a self-directed learner. This project will offer students a personalized learning experience showcasing talents and skills that the student has developed at Londonderry High School. Students will be able to focus on a passion that they have and/or a question that they are looking to explore and discover the answer to. The Senior Project is a full year 1 credit pass/fail course.

RUNNING START

New Hampshire Running Start is an educational initiative for high school students in collaboration with the New Hampshire Community College System. This program gives students the opportunity to enroll in specific college courses offered at their high school during the regular school day. Students who choose to enroll in Running Start receive high school credit as well as college credit for the course. College credits can be used to continue in the Community College System of New Hampshire or may be transferred to other colleges. Students pay a fee to the Community College System of New Hampshire per course to enroll in the program. Once the registration period closes, students will not be allowed to register for college credit. For more information, contact the Curriculum Office. Running Start courses include: ACCOUNTING I, ANATOMY AND PHYSIOLOGY, AP COMPUTER SCIENCE, BIOTECHNOLOGY, BUSINESS MANAGEMENT, CALCULUS, COMPUTER MAINTENANCE AND REPAIR I & II, DIGITAL ELECTRONICS, EXPLORING/PRACTICING ART OF TEACHING, HONORS PHYSICS, HONORS C++ PROGRAMMING, INTRODUCTION TO ENGINEERING DESIGN, MACROECONOMICS, MARKETING, PRINCIPLES OF ENGINEERING, VISUAL BASIC, TELEVISION PRODUCTION.
PROCEDURE FOR COLLEGE COURSES (OFF-SITE FROM LHS)

Any student wishing to enroll in college courses outside of Londonderry High School must receive pre-approval from the Director of Guidance. If approved, the course(s) taken will be placed on the student’s transcript with the grade and earned credit. However, the grade will not be factored into the student’s cumulative grade point average. Adult Education, Summer School and Bridges courses are excluded from this procedure. The student/family must meet with the Director of Guidance prior to any enrollment. The student must provide the following information at this meeting: - Name of Institution - Address of Institution - Name of Course (including syllabus, course description, length of course, and total hours of classroom time) Upon completion of the course, the student must provide an official transcript from the institution to the Director of Guidance in order for the course to be added to the transcript.

SNHU IN THE HIGH SCHOOL

SNHU in the High School’s dual enrollment program allows high school students the opportunity to earn early college credits while in high school. At Londonderry High School designated courses have been aligned to meet the same content, rigor and learning outcomes as that of the University. The high school teachers instructing these courses met the University’s adjunct faculty requirement and have been approved by the University. Students will have the opportunity to take advantage of the dual credit opportunities at the beginning of the courses by completing an application and submitting the course registration fee for each class. Once the registration period closes, students will not be allowed to register for college credit. Since these courses are college courses, grades earned while enrolled in the course are recorded on a SNHU transcript. Portability and transferability of credits rests solely with the individual colleges and universities as they have varying policies on accepting transfer credits; thus, it is the students’ responsibility to consult with higher educational institutions to determine whether the SNHU course(s) can be transferred. Additional information regarding the program can be directed to the Curriculum Office. Currently, the courses offered for dual credit include: HONORS COLLEGE COMPOSITION; HONORS CREATIVE WRITING; ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE; MUSIC THEORY AND AURAL SKILLS; PARENTING & CHILD; PUBLIC SPEAKING; ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE; ADVANCED PLACEMENT STATISTICS; WORLD GEOGRAPHY; ADVANCED DRAWING; and BIOLOGY THROUGH BIOTECHNOLOGY. There needs to be a minimum of 6 students per class enrolled in the dual credit option in order to offer the course for college credit.
EXTENDED LEARNING OPPORTUNITIES

Extended learning opportunities are allowed per School Board policy and must be aligned with the High School’s educational goals and objectives. Such opportunities may provide credit or supplement regular academic courses. Credits can be granted for extended learning activities including independent study, internships, distance education, video-based, internet-based, on-line, or virtual, and other courses. Prior approval by the Principal and/or the Director of Guidance is required. This policy does not exempt students from taking and completing core academic courses and requirements per Londonderry High School Program of Studies. Credit for the course will be based on Carnegie Units as determined by the Principal and/or the Director of Guidance and is not recognized until an official record of the final grade has been approved by them with input from the online teacher. Grades will be on a pass or fail basis. These grades will not be a part of the student’s grade point average.

AUDITING COURSES

Students interested in auditing a course must meet with the Director of School Counseling prior to the start of each semester. Auditing allows a student to enroll in a class, but not receive credit or a GPA grade. If auditing is approved and all course requirements are met, the course number and symbol AU will appear on the student’s transcript. Students must attend the class daily and must complete all assignments.

WITHDRAWAL FROM COURSES

Official withdrawal must be initiated through the appropriate School Counselor. Any approved withdrawal (not course level change) after the sixth week or 30 days of a full year or semester course will be indicated on the report card and transcript with a permanent grade. Each request for withdrawal will be considered on its own merit with regard to the educational needs of the student. A WP will be issued for a student who is passing and a WF will be issued for a student failing the class at the time of the withdrawal. The WF will equal 0.00 grade points and will be factored into the student’s cumulative grade point average. Any withdrawal request must have the final approval of the Director of School Counseling.

REPORTING STUDENT GRADES

Report cards are issued four times per year at the end of each marking quarter in November, January, April, and June. Progress reports are issued to all students midway through each marking period in October, December, March, and May.

PARENT PORTAL

All parents and high school students have access to view their assignments, grades and attendance through the X2 portal. In order to access this information, you will need to have a username and password. If you need this information, please contact your House Office. The website is x2.londonderry.org.
GUIDANCE

GUIDANCE SERVICES

Every student at Londonderry High School is assigned to a School Counselor. Students have access to counselors on an individual and/or group basis whenever the need arises. The purpose of counseling is to help students make intelligent decisions that meet their personal, educational, and vocational objectives. The counseling staff is concerned with helping students gain a clearer understanding of their abilities and interests. However, students have the responsibility to decide for themselves the important goals for their lives, and they are accountable for their decisions. The Director of School Counseling is also available for all guidance services, including post-secondary counseling and reference letters.

LHS Guidance components include:
- Provide counseling for students with personal concerns.
- Provide academic counseling for students.
- Provide informational services for students and parents.
- Assist students with college and career planning.
- Serve as a consultant to parents of assigned students.
- Collaborate with and serve as a resource person to faculty, staff, and administration.
- Contribute to the continual promotion of an educational climate in which students can grow intellectually and emotionally.

Students can schedule appointments to see their School Counselor during a study period, lunch, and/or before or after school. Parents or guardians are encouraged to call their child’s counselor with concerns. Counselors and teachers welcome conferences. All conferences with teachers should be arranged through the Guidance Department.

STUDENT RECORDS (According to Londonderry School District Policy)

Student records are maintained for each student in the following categories: directory information, academic records, standardized and individual testing, individual education plans, pupil placement team recommendations, attendance and enrollment data, and health records. The school principal is responsible for the maintenance of these records. The Director of School Counseling shall make a written record of the disclosure of all student information except directory information, and such record will be kept in the student’s file. This record of disclosure is also available for inspection by the parent or eligible student*. A record of inspection will also be kept.

AMMENDMENT OF RECORDS

The parent or eligible student may request that the record be amended in respect to information alleged to be inaccurate, misleading, or in violation of the privacy rights of the student. Such requests shall be in writing, dated, and addressed to the principal. In the event that the school district decides to refuse the request to amend, the Director of School Counseling shall inform the parent or eligible student and shall advise said person of his/her rights to a hearing in compliance with the law.

DESTRUCTION OF RECORDS

As a general rule, all student records except the permanent record (student grade transcript) will be destroyed within five years after the student graduates or otherwise withdraws from school. The permanent school record will be retained by the school for a minimum of 50 years.
Parents and eligible students wishing to inspect student records must file a written request to do so with the Director of School Counseling. Single copies of records will be made available to parents free of charge. Additional copies are five cents per page. Records will be kept in the student’s file of all copies made, when made, and to whom provided.

*Eligible student shall mean a student who has attained 18 years of age or is attending an institution of post-secondary education. Parent shall mean a student’s biological or adoptive father or mother or court-appointed guardian or agency legally authorized to act on behalf of the child in place of, or in conjunction with, the father, mother, or guardian. The term as used shall include a divorced or separated parent, subject to any written agreement between parents or court order governing the rights of such parent that is brought to the attention of the school Director of School Counseling.*

ADMISSION TO POST SECONDARY SCHOOLS

Requirements vary from school to school; therefore, students and parents are advised to review the catalogs of the schools in which they are interested for their particular admission requirements. Many catalogs are available in the School Counseling Department or can be obtained directly from the college. During the school year, admissions officers from many post-secondary schools will visit our school. The dates of these visits will be announced. Interested juniors and seniors will be given the opportunity to meet with these representatives to discuss their schools with them. Suggested completion of the following must be considered when applying to post-secondary schools.
Students are advised to follow a solid college preparatory program throughout their four years of high school if they wish to be competitive for college admission. A substantial deviation from the suggested program may jeopardize the achievement of this objective. It is suggested that parents make an appointment with the School Counselor prior to the middle of the student’s junior year to discuss college planning. College admissions personnel look very closely at the following:

- **Academic Record (Transcript):** Most important is the student’s academic record since the ninth grade with special emphasis on junior and senior years. Consideration is given to the level of difficulty of courses taken, academic performance within those courses, and the student’s overall grade point average.

- **College Admission Tests:** The SAT Reasoning Test or the ACT (American College Test) is required by most, but not all, four year colleges and some two year schools. The SAT Subject Tests are required at fewer, but often more selective schools. In some cases, the ACT exam may substitute for the subject tests, and nearly always may be used instead of the Reasoning Test. See college catalogs or The College Handbook for specific information. The SAT Reasoning Test is generally taken in the spring of the junior year and the fall of the senior year. Students can register for the SAT or subject tests at www.collegeboard.org and for the ACT at www.ACT.org.

- **Letters of Recommendation**

- **Co-Curricular Activities:** The emphasis varies from college to college, but it is generally preferred that students be active contributors in one or two areas rather than superficial participants in many activities.

- **Senior Achievements:** All colleges request end-of-year grades. Some schools have withdrawn acceptances because of poor performance and a limited course load in the second semester. Seniors are encouraged to continue to take challenging and demanding courses as well as use the time to explore new subject areas.

**ARTICULATION AGREEMENTS**

Londonderry High School and the following colleges have developed a program to accommodate and assist students throughout the admissions process: Franklin Pierce University, Johnson and Wales University, New England School of Communications, Rivier University, Southern NH University, Suffolk University, University of New Hampshire - Manchester, Umass Lowell. The LHS college articulation agreements seek to encourage all LHS students to consider post-secondary options and to make Londonderry course selection more purposeful for students. LHS courses, cumulative grade point averages and the successful compilation of application materials are an integral process by which LHS students may benefit from non-binding early acceptance, merit scholarships, campus tours and on-site interviews at LHS. The Class of 2015 received $256,000 in articulation monies from these partner schools.

**PORTFOLIOS**

Students choosing certain career paths may be required to produce a portfolio for admission to post secondary education in that field. Students should contact the institution in which they have an interest to obtain the portfolio requirements. They should then contact the Londonderry High School Director of School Counseling for further instructions.
ADULT EDUCATION

Londonderry Adult Education recognizes that a typical school day is not exclusively the way to meet the educational needs of all students. The Londonderry Adult Education Program is endorsed by the Londonderry School District and provides an alternative path towards a high school diploma. This program employs various teaching methods to reach all learning styles in order to equip students with the tools necessary to achieve success. The Londonderry School District holds to the fundamental truth that all children are capable of achievement. The Londonderry Adult Education academic program serves two purposes. Students who wish to remain in our day program and earn the 24 credit Londonderry High School diploma may still take night classes and apply those grades/credits to the day program. Students who chose this option will receive a ½ credit for passing this course. Students who seek a 20 credit Adult Education HS diploma, in consult with their parents, will withdraw from day school and transfer into the Adult Education Program. These individuals will be night school students who will apply previous credits earned toward this diploma. Students / parents from Londonderry and surrounding towns will meet with the guidance department and program director to map out an academic course of action. All students enrolled in Adult Ed receive 1.0 credit for each course passed. This is a tuition program with classes running on Monday, Tuesday, Wednesday, and Thursday afternoons and evenings and for fifteen weeks. The fall semester runs from September through January and the spring semester begins in February and ends in May, with graduations held for each semester class. For more information, please contact the Program Director or visit the school’s website.

SUMMER SCHOOL

The summer school program shares the same philosophy as the Adult Education Program, offering students who are behind in credits and at-risk of not graduating an extension to their school year where they can gain additional credits and make up previously failed courses. A variety of classes are offered in this five week summer program for students in grades 9 – 12. Students can earn a half credit for each course they take. There is a fee for each course and courses run from 8:00 AM to 10:00 AM and 10:15 AM to 12:15 PM. Students enrolled in summer school receive a ½ credit for successfully passing each summer class. Summer school is suggested for any 8th grade student who fails to pass a core course during their last year at the middle school. Less than ½ of the students choose to do so. Because they have already matriculated out of the Middle School, there are no incentives that are likely to increase participation. This program will offer them the opportunity to start out knowing more than their peers do about the new academic environment, something that might be novel, but that should be motivating for these children. That sense of investment, along with the chance to earn credit, will make the program a cost-effective way to serve our at-risk population.

INCOMING FRESHMAN TRANSITION (LIFT)

LIFT is a transition program at LHS that is designed to meet the needs of incoming 9th graders as an alternative to traditional summer school offerings. The program will award participants a ½ credit in Reading and a ½ credit in Study Skills. The goal of this program is to increase student skills to better prepare them for entering the high school, increase student investment and connection to the school, educate students about the services offered through the high school, and create an understanding of the essential nature of the skills high school provides for students entering the workforce and/or post-secondary education. This program runs on a regular summer school time frame from 8:00-12:15 serving 20-24 students, and is staffed by two classroom teachers. Students must be recommended by the 8th Grade Counselor.
Londonderry High School is an accredited site for students who would like to pursue their HiSet test (previously known as the GED). This program provides an opportunity for individuals to earn a certificate outside of high school. Individuals interested in pursuing their HiSet are required to meet with the Chief Examiner or the Director of School Counseling to discuss a course of action. Generally, students will take a series of practice tests at the high school to assess their level of achievement before taking the official test. Individuals may schedule an appointment to take the test upon availability. A fee of $15 is charged for the practice test and $95 for the official test.

PROGRAMS AND SERVICES

VEHICLE AND PEDESTRIAN SAFETY (DRIVER EDUCATION)

The Londonderry School District contracts with privately owned and operated Driver Education Schools for this service. This driver education course is designed to prepare young people for entry into the traffic system as an operator of automobiles. Courses are offered six times a year during the fall, winter, spring and summer. Included in the automobile driver education program are thirty (30) hours of classroom instruction and eight (8) hours of driving. Students must be 15 ½ years of age or older prior to enrollment in the course and must be physically and mentally capable of operating a motor vehicle. On site licensing is available if the student is 16, successfully completes all course requirements, and has approval of instructor. Students are reminded that this course requires a full-time commitment. If students feel that they will not be able to attend all the classes and driving times due to work, family vacations, etc., it would be unwise to sign up for this course. Students will be dropped from the driver education program if they miss two sessions or more than one scheduled driving lesson. A fee is charged for this program. Open to Grade 9 only with approval of the instructor.

LIBRARY MEDIA SERVICES

The Library Media Center seeks to ensure that all students and staff are effective users of ideas and information. The library media program, its facilities, resources and instruction play an integral role in supporting and implementing the curriculum at Londonderry High School. Library Media Specialists work in partnership with classroom teachers to teach information skills in conjunction with content area assignments. The library collection includes books, videos, periodicals and an extensive print and electronic reference collection. A “virtual library” can be accessed via the Library Media Center Web Site (http://schools.londonderry.org/lhs/lmc) and provides information from a wide range of online subscription services not freely available on the Internet.

RESPONSE TO INTERVENTION (RTI TEAM)

The purpose of the RTI team is to problem solve and design activities to eliminate the difference between “what is” and “what should be” with respect to student development. The RTI team involves a collaborative effort to identify the student’s current level of performance, desired level of performance and variables that are preventing the student from attaining that desired level. Using various strategies, the RTI team seeks to maximize the use of available resources prior to a Special Education, 504 referral, or Advisory Period. RTI requires collaboration and team building among the administration, teachers, School Counselors, specialists and parents to ensure a successful implementation of the RTI model.
SECTION 504 (Rehabilitation Act of 1973)

To become eligible for services and protection against discrimination on the basis of disability under Section 504, a student must be determined, as a result of an evaluation, to have a “physical or mental impairment” that “substantially limits one or more major life activities”. Questions regarding 504 plans at LHS, please contact the LHS Building 504 Coordinator. Lancer Lab is available for 1/4 credit for all eligible 504 students.

SPECIAL EDUCATION SERVICES

The Special Education Department offers a wide variety of services designed to meet the needs of individual students. Students can be referred for special education through teacher, parent request or RTI Team recommendation; however, students must meet established criteria in order to be eligible for special education services. If the criteria are met, an Individualized Education Program (IEP) will be developed by a placement team (parent and school representatives), which specifies services to be delivered by the school and responsibilities to be accepted by students and parents. Please see the Special Education course offerings.

CO-CURRICULAR ACTIVITIES/ELIGIBILITY

Athletics, along with clubs, organizations and other activities, comprise the co-curricular program. All students are encouraged to participate and should be willing to devote the time and effort necessary to contribute to the growth and success of the activity. ALL STUDENTS MUST PASS 5 CLASSES DURING THE PREVIOUS MARKING TERM IN ORDER TO PARTICIPATE IN ANY CLUB, ACTIVITY OR SPORT. To be eligible for school activities, a student must be in good standing. To participate in a school activity on a non-school day, a student must be present on the last school day prior to the activity. Students dismissed from school on the day of an activity or on the last school day prior to a non-school day activity, must return to school prior to the close of the school day or must receive permission of an Assistant Principal in order to be eligible for participation in the school activity. This regulation applies to all school activities, including athletics, dances, performances, etc. Students who violate the Student Use/Abuse Policy on school district property or at a school event will be ineligible for co-curricular activities for 180 school days.

NEW HAMPSHIRE SCHOLARS

NH Scholars
- 4 years of English
- 4 years of Math (inc. Alg I & II, Geometry, and 1 other)
- 3 years of Lab-Science (including 3 years of Labs chosen from Bio, Chem, Physics, A&P, etc)
- 3 ½ years of Social Science (i.e. U.S. History, Gov’t, Geography, Psychology, Financial Literacy, Business, Marketing, etc)
- 2 years of a Foreign Language
- Encourage students/high schools to seek experiential learning opportunities and community partnerships/business mentorships
NH Scholars w/ STEM Emphasis
- 4 years of English
- 4 years of Math (inc. Alg I & II, Geometry, and 1 other)
- 4 years of Science (including 3 labs) (3 years of Labs chosen from Bio, Chem, Physics, A&P, Pre-Engineering, Computer Science, Health Science, etc)
- 3½ years of Social Science (i.e. U.S. History, Gov’t, Geography, Psychology, Financial Literacy, Business, Marketing, etc)
  - 2 years of a Foreign Language
  - 1 year (or more) chosen from Technology, Engineering, Computers, Advanced Manufacturing, etc.
  - Minimum 3.2 GPA (4.0 scale)
  - Encourage students/high schools to seek experiential learning opportunities and community partnerships

NH Scholars w/ Arts Emphasis
- 4 years of English
- 4 years of Math (inc. Alg I & II, Geometry, and 1 other)
- 3 years of Lab-Science (including 3 years of Labs chosen from Bio, Chem, Physics, A&P, etc)
- 3½ years of Social Science (i.e. U.S. History, Gov’t, Geography, Psychology, Financial Literacy, Business, Marketing, etc)
  - 2 years of a Foreign Language
  - 2 years chosen from Visual Arts, Fine Arts, Performing Arts, Music, Graphic Design, etc.
  - Minimum 3.2 GPA (4.0 scale)
  - Encourage students/high schools to seek experiential learning opportunities and community partnerships/business mentorships

CAREER CLUSTERS/PATHWAYS

Students at Londonderry High School may select to participate in one of our designated career clusters/pathways. Courses are organized in a logical sequence which allows a student to explore a subject of interest, to develop or enhance individual talents and to expand one’s knowledge of potential careers. Students interested in pursuing one of the clusters/pathways are urged to work closely with their guidance counselors, teachers and parents throughout the course selection process.

ACADEMY OF FINANCE (AOF)

See course descriptions under Business and Computer Technology The Academy of Finance is a nationally-acclaimed, industry-validated curriculum pathway model sponsored by the National Academy Foundation (NAF). The Academy of Finance prepares students for post-secondary education in finance-related majors as well as other courses of study that demand a strong academic foundation in math, social studies, and writing. Following AOF guidelines, students take a series of rigorous elective courses. In addition to academic course work, students participate in a variety of work-based learning activities. A key component of the program is a 150 hour internship (paid or unpaid) between junior and senior year. To be eligible for the internship, students must maintain good grades and attendance. Students who complete the entire program will receive a National Academy Foundation Certificate of Financial Studies. Students interested in joining the Academy of Finance program must submit an application and register for required AOF elective courses. Applications are available beginning sophomore year. The recommended sequence of required courses is listed below.
ATHLETIC TRAINING

See course descriptions under Health/PE. This selection of courses offers the student a foundation of knowledge focused on the diagnosis, treatment, and prevention of injury sustained during athletic endeavors with the goal of restoring function. Students will take the selected required courses including Athletic Training/Sports Medicine I and II where students will be required to complete a practicum with the LHS Athletic Trainer. This may require course work to be completed outside of the traditional school day.

BIOTECHNOLOGY TECH PREP PROGRAM

See course descriptions under Science. Biotechnology combines our advanced understanding of living organisms with cutting edge technological tools to create products and processes that enhance the quality of life and benefit people worldwide. The goals of the Biotechnology Tech Prep Program are to foster an environment where career exploration in the emerging biotechnology field can flourish and to create a pathway that includes courses and experiences that lead to postsecondary admission and the opportunity of earning college credit. Biotechnology is a Project Running Start class.

COMPUTER MAINTENANCE AND REPAIR

See course descriptions under Business and Computer Technology. Through assignments, simulations, and hands-on activities, students will be introduced to hardware components, repair techniques, and troubleshooting fundamentals. Students will also participate in solving "real world" problems by assisting technical support personnel in troubleshooting school hardware and software. Safety and professionalism is emphasized. Completion of this course and PC Maintenance and Repair II will prepare students for the CompTIA A+ certification exam. This course is a Running Start course. Students who sign up for the Running Start Program will earn 3 college credits for each successful completion of parts I and II.

FUTURE EDUCATORS ACADEMY

The Future Educators Academy is an opportunity to explore the field of teaching. It includes two rigorous courses that prepare students for postsecondary enrollment in a teacher preparation program. To enroll in the first course – Exploring the Art of Teaching – students must have a C+ cumulative grade point average. Enrollment in the second course – Practicing the Art of Teaching – is restricted to those students who complete the first course with a minimum grade of B. The curriculum has been approved by the Education Chairs at the Community College of New Hampshire as comparable to Foundations of Education and, through Running Start, is offered for three transferable college credits.* Additionally, contingent upon academic performance in the FEA courses, students choosing postsecondary enrollment at Southern New Hampshire University, Rivier College, or UNH (and many other colleges and universities) may be exempted from taking the Intro to Teaching course at these institutions.

*The registration process for Foundations of Education will occur at the beginning of the second course. There is a $150.00 fee, payable to Manchester Community College (fee subject to change).
INFORMATION TECHNOLOGY

See course descriptions under Business and Computer Technology. The IT Pathway is built on a sequence of courses that lead to postsecondary enrollment in a focused area of computer study. At the present time Londonderry High School offers a programming pathway and a web development and design pathway. The first two courses of the programming pathway provide a solid foundation in problem solving and programming logic. Students then expand on their expertise by continuing on to advanced courses. Some of these courses are currently being taught at the college level so that high school students can earn dual credit through Project Running Start. Students who choose to pursue the web development and design pathway are expected to complete the pathway with an independent study class where they will apply their skills to a semester-long project.

MASS COMMUNICATIONS

See course descriptions under appropriate departments. The Mass Communications Pathway offers students an interdisciplinary foundation in the basic theories, principles and skills necessary to prepare students for future leadership roles in communications media. Students will take the selected required courses and then specialize in one of the three areas—print, telecommunications or visual communications. Students will also have the opportunity to complete independent projects that allow them to have real world experience as well as pursue internships.

PROJECT LEAD THE WAY

See course descriptions under Technology Education. Project Lead the Way is a pre-engineering program with a three course sequence designed to help the student explore technology-related careers. Each class uses state-of-the-art technology equipment and software and is taught in a laboratory setting that involves projects rather than lectures to learn material. The program allows students to apply their math and science skills to real world problems. Students will have the opportunity to explore the broad field of engineering to help them make career decisions. Principles of Engineering and Digital Electronics are Project Running Start courses.

TELEVISION PRODUCTION AT LONDONDERRY HIGH SCHOOL

See course descriptions under Technology Education. This is a two-year vocational program that focuses on exposing students to the wide range of career options in the field of television production. Students in the first year of the program will learn and practice the fundamentals of studio and remote production. Students in the second year of the program will develop a variety of projects for a video resume and will also create a written resume suitable for college applications or job interviewing. This double block class meets at the Londonderry Access Center and student productions may be cablecast on LEO 21, Londonderry’s educational access channel. Students completing course work will receive a Certificate of Completion in Television Production from Londonderry High School after they have successfully completed both Television Production and Advanced Television Production courses.
CAREER AND TECHNICAL (CTE) SCHOOL ADJUNCT PROGRAMS AT MANCHESTER SCHOOL OF TECHNOLOGY (MST) AND ALVIRNE HIGH SCHOOL

Londonderry High School juniors and seniors who complete the two-year CTE school programs at MST or Alvirne are issued a certificate of completion in the student’s area of study. The cooperative agreement between the Manchester and the Hudson School Districts provides Londonderry High School students with the opportunity to pursue additional CTE offerings. Students pursue academic offerings at Londonderry High School and travel to the Manchester School of Technology (MST) and Wilbur H. Palmer Vocational Technical Center, located at Alvirne High School for CTE classes only. The Londonderry School District provides transportation to and from both programs. These are both tuitioned programs which require daily attendance. Application Procedures: - Visit Main Guidance for program information and appropriate application forms. - Present sophomores will attend an informational session on all CTE Programs. Those interested will be brought on a tour of the CTE center. - Present juniors may request to attend, but are cautioned that acceptance is limited to available space and qualification requirements are more stringent. The two-year program (Junior-Senior) meets two hours per day, five days per week. Afternoon sessions are available. For additional information, please visit your School Counselor.
Interactive Course Offerings

Interactive courses are designed for students who have an interest in working with the special needs population and would like to share their interest and knowledge in a specific content area in a hands-on environment. Mainstream students work with students who require special assistance. Students may help develop and facilitate units of study. These courses would be an excellent choice for students considering a career working with the special needs population or in education. Course descriptions for the following classes can be found under the specific department. ART INTERACTIVE: ART, COMPUTER INTERACTIVE: BUSINESS, FOODS INTERACTIVE: FAMILY & CONSUMER SCIENCE, PE INTERACTIVE: PHYSICAL EDUCATION, SCIENCE INTERACTIVE: SCIENCE, WOODWORKING INTERACTIVE: TECHNOLOGY EDUCATION

Office Aide

Students interested in assisting the staff may apply to work as an office aide. Students will be responsible for completing basic clerical assignments. Applications should be made to the administrator involved. No credit is awarded for this service.

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<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>Interactive Course Offerings</td>
<td>H</td>
<td>S1 or S2</td>
<td>10-12</td>
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<tr>
<td>Office Aide</td>
<td>H1302</td>
<td>FY</td>
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Art

<table>
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<th>Semester</th>
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</tr>
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<tbody>
<tr>
<td>Acrylic Painting</td>
<td>H0006</td>
<td>S2</td>
<td>09-12</td>
<td>Basic Design and teacher recommendation</td>
</tr>
<tr>
<td>Art History &amp; Pop Culture</td>
<td>H0011</td>
<td>S2</td>
<td>09-12</td>
<td>Basic Design</td>
</tr>
<tr>
<td>Basic Design</td>
<td>H0001</td>
<td>S1 or S2</td>
<td>09-12</td>
<td>Prerequisite for additional studio art courses</td>
</tr>
<tr>
<td>Ceramics I</td>
<td>H0007</td>
<td>S1 or S2</td>
<td>09-12</td>
<td>Basic Design</td>
</tr>
<tr>
<td>Drawing</td>
<td>H0002</td>
<td>S1 or S2</td>
<td>09-12</td>
<td>Basic Design</td>
</tr>
<tr>
<td>Sculpture</td>
<td>H0009</td>
<td>S2</td>
<td>09-12</td>
<td>Basic Design and Drawing</td>
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<tr>
<td>Advanced Drawing</td>
<td>H0003</td>
<td>S2</td>
<td>10-12</td>
<td>Art Interactive</td>
</tr>
<tr>
<td>Art Interactive</td>
<td>H0012</td>
<td>S1</td>
<td>10-12</td>
<td>Basic Design and Ceramics I</td>
</tr>
<tr>
<td>Ceramics II</td>
<td>H0008</td>
<td>S2</td>
<td>10-12</td>
<td>Basic Design and Ceramics I</td>
</tr>
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<td>Commercial Arts</td>
<td>H0005</td>
<td>S2</td>
<td>10-12</td>
<td>Basic Design</td>
</tr>
<tr>
<td>Oil Painting</td>
<td>H0004</td>
<td>S1</td>
<td>10-12</td>
<td>Basic Design and teacher recommendation</td>
</tr>
<tr>
<td>Studio Art</td>
<td>H0010</td>
<td>S1/S2</td>
<td>11-12</td>
<td>Basic Design and TWO or more semesters of advanced art courses</td>
</tr>
</tbody>
</table>

Acrylic Painting  
H0006  09-12 S2  credits: .5

This course will introduce a variety of water media painting techniques, including watercolor, acrylic and gouache. Basic elements and principles of design, along with composition and color theory, will be reinforced. Students will be exposed to major styles of painting through painting techniques. Choice and care of materials will be stressed and strong drawing skills are recommended. Acrylic Painting is a studio course with some lecture and discussion.
Prerequisite: Basic Design and teacher recommendation

Art History & Pop Culture  
H0011  09-12 S2  credits: .5

This course will be an overview of the visual arts, beginning with Prehistoric times emphasizing artistic contributions from Asian, Greek, Egyptian, Native American and African cultures. We will explore the materials and techniques used, concentrating on painting and sculpture. Students will become aware of the influence visual arts have on the development of modern art, Pop-culture and communication of the 21st century. Through hands-on and project-oriented art making, students will become more aware of the influence aesthetics has on modern culture. This is a studio class with some lecture, research and PowerPoint presentations.

Basic Design  
H0001  09-12 S1 or S  credits: .5

This studio course will provide a foundation for all other art courses. Students will increase their awareness and understanding of the basic elements and principles of design, which are fundamental to all visual art forms. Drawing skills will be developed and strengthened because such skills are essential for the growth of personal expression in both two-dimensional and three-dimensional media. Equally important will be the emphasis on providing experiences that will promote creative thinking techniques and problem solving skills that are essential in the visual arts and in all other areas of human endeavor. Basic Design is a studio course with some lecture and discussion.
Prerequisite: Prerequisite for additional studio art courses

Ceramics I  
H0007  09-12 S1 or S  credits: .5

The objective of this course is to develop skills, both hand building and wheel working, with natural clay materials. Students will experience various methods of construction and glazing techniques. Students will experience the works of professional ceramic artists and will be presented with the cultural and historical background of the craft. Functional, decorative, and sculptural pieces will be produced. Ceramics I is a studio course with some lecture and discussion.
Prerequisite: Basic Design

Drawing  
H0002  09-12 S1 or S  credits: .5

Students will develop their drawing skills while learning the principles behind good pictorial composition. A variety of subject areas will be explored, including portrait and architectural studies. Students will, with a variety of media, draw from observation and imagination. Drawing is a studio course with some lecture and discussion.
Prerequisite: Basic Design

Sculpture  
H0009  09-12 S2  credits: .5

In this course, students will have the opportunity to develop three-dimensional art forms in both in-the-round and relief using a variety of materials such as natural clay, plaster, wire, and foam core. Students will explore the four basic sculpture methods: modeling, construction, carving, and casting. Students will also experience the casting process using a plaster waste mold. Sculpture is a studio course with some lecture and discussion.
Prerequisite: Basic Design

Advanced Drawing  
H0003  10-12 S2  credits: .5

Students will have the opportunity to increase their drawing skills using color, as well as their understanding of the principles of good composition. A variety of subject areas with an emphasis on portrait and figure studies will be explored. Students will concentrate on drawing from life using a variety of different media. Advanced Drawing is a studio course with some lecture and discussion. This course is offered concurrently for college and high school credit through SNHU and Londonderry High School.
Prerequisite: Basic Design and Drawing

THE COMPLETE, OFFICIAL PROGRAM OF STUDIES CAN BE FOUND AT HTTP://INFO.LONDONDERRY.ORG
Art Interactive

H0012  10-12  S1  credits: .5
The purpose of this course is to provide students the opportunity to work with the special needs population and to provide a diverse educational opportunity in the arts to all students who participate in the class. Students will work together in small groups throughout the semester. The elements and principles of design will be introduced and explored through a variety of materials. This course would be an excellent choice for students considering a career working with the special needs population, in education, or in art therapy. Art Interactive is a studio course that covers several different units with some lecture and discussion included.

Ceramics II

H0008  10-12  S2  credits: .5
The objective of this course is to further develop skills in hand building and wheel working. Individual major projects will be required and both functional and sculptural pieces will be produced. Students will experience the works of professional ceramic artists and the cultural and historical background of the craft will be further explored. Ceramics II is a studio course with some lecture and discussion.
Prerequisite: Basic Design and Ceramics I

Commercial Arts

H0005  10-12  S2  credits: .5
This course will emphasize the application of the elements and principles of design in the commercial arts, where aesthetics and function are inseparable. Students will design products and packages and create illustrations for logos of companies created by students, magazine covers, and advertisements. Students will learn to combine illustrations and words to produce finished commercial art pieces. This will be accomplished through hand-drawn and computer-generated images and typography. Career possibilities will be explored. Commercial Arts is a studio course with some lecture and discussion.
Prerequisite: Basic Design

Oil Painting

H0004  10-12  S1  credits: .5
The objective of this course is to stress pictorial composition, and color theory and to reinforce principles of design while introducing a variety of oil painting techniques. Students will work from direct observation and memory while studying various painting styles, including Renaissance, and emphasizing the modern and postmodern art of today. Choice and care of materials will be stressed. Strong drawing skills are recommended. Oil Painting is a studio course with some lecture and discussion.
Prerequisite: Basic Design and teacher recommendation

Studio Art

H0010  11-12  S1/S2  credits: .5
This course is designed for those students who are preparing for a career in the arts. This is an opportunity for students to develop a portfolio and artistic statement to submit to colleges and professional art schools. Projects will be centered around drawing, various painting techniques and three-dimensional designs. Students will participate in group discussions on art philosophy, aesthetics, the creative process, art criticism and the art market. Students will also have the opportunity to visit museums through possible field trips and representatives from art schools will provide portfolio reviews and program overviews.

Students creating portfolios for application to art school should take Studio Art both Junior and Senior years, spring of their junior year, followed by fall of their senior year, to enable completion of a portfolio for college. Both semesters must be completed for Advanced Placement designation/credit.
Prerequisite: Basic Design and TWO or more semesters of advanced art courses
Can be taken twice for credit

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THE COMPLETE, OFFICIAL PROGRAM OF STUDIES CAN BE FOUND AT  HTTP://INFO.LONDONDERRY.ORG
# Business and Computer Technology

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>Introduction to Business</td>
<td>H0900</td>
<td>FY</td>
<td>09-10</td>
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<tr>
<td>Animation for the Web</td>
<td>H0816</td>
<td>S2</td>
<td>09-12</td>
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<tr>
<td>Business Computer Applications</td>
<td>H0902</td>
<td>S1/S2</td>
<td>09-12</td>
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<td>FY</td>
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<td>CP Computer Maintenance &amp; Repair I</td>
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<td>S1</td>
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<td>College Prep Computer Maintenance &amp; Repair I</td>
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<td>CP Visual Basic</td>
<td>H0805</td>
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<td>College Prep Algebra I A or B (or currently</td>
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<td>Technology Sampler</td>
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<td>Yearbook</td>
<td>H0912</td>
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<td>Prior approval of instructor required.</td>
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<td>Computer Interactive</td>
<td>H0807</td>
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<td>Interview with instructor for students interested</td>
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<td>in the position of yearbook chief editor.</td>
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<td>CP Accounting II</td>
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<td>FY</td>
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<td>College Prep Accounting I</td>
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<tr>
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<td>CP Financial Planning</td>
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<td>CP Financial Services</td>
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<tr>
<td>CP Global Financial Studies</td>
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</table>

## Introduction to Business

**H0900 09-10 FY credits: 1**

This course introduces the different forms of business ownership, including sole proprietorships, partnerships and corporations. Students will explore the rights and wrongs of common business practices prevalent today and will identify the roles, activities and impacts the government, the legal system and organized labor have on businesses. Students will learn the importance of ethical decision-making and the effects decisions have on organizations, consumers and employees. Students interested in learning more about the world of business and possibly running their own business in the future should take this course. Students are also encouraged to further explore their business interests through participation in Future Business Leaders of America (FBLA).

## Animation for the Web

**H0816 09-12 S2 credits: .5**

Adobe Flash is a multimedia program used to add animation, video, and interactivity to web pages. Flash is frequently used for advertisements, games and flash animations for broadcast. More recently, it has been positioned as a tool for “Rich Internet Applications” (RIAs). It is also a great introduction to more complex animating applications. In this project based course, students will be working on computers at all times using the Adobe Creative Suite 6 to learn the principles of vector graphics, drawing, color usage, creation and use of movie clips and buttons, layer skills, animation of text and objects using Actionscript, tweening, and motion guides, and animated masks. This course fulfills the Computer Education requirement.

## Business Computer Applications

**H0902 09-12 S1/S2 credits: .5**

This course covers all the fundamental aspects of Microsoft Windows, Microsoft Office Manager, Microsoft Word, Excel, Access, Power Point and OLE. When students complete this course, they will have a firm knowledge of the many capabilities of word processing, spreadsheet creation, database development and presentation graphics in a window environment as well as the development of integrated solutions to personal and business problems through the use of OLE.

This course fulfills the Computer Education requirement. This course is open to all students, but required for the Future Educators Academy and Academy of Finance students.

## CP Accounting I

**H0903 09-12 FY credits: 1**

In Accounting I, the student will learn the accounting cycle from the analysis and recording of business transactions to the preparation of financial statements. Attention will be given to payroll records, preparation of the payroll, and the payment of employer’s payroll taxes.

This course is a Running Start course (Juniors and Seniors only). This course is open to all students, but required for Academy of Finance students.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.
Structured Programming I

This course is the foundation course for all other computer programming courses. It introduces students to programming concepts and develops analytical and problem solving skills. This course is a must for students interested in the fields of science, engineering, mathematics, and computer science, but also recommended for all students as the analytical and problem solving skills are utilized in all careers. Students are in the computer lab at all times and work on an independent or structured basis, depending upon their skills and interests. Lectures and demonstrations are used to introduce new concepts, but students spend the majority of the time programming. The languages used are: BASIC (QB64) and Visual Basic 2010. Topics will include: data types, control structures, loops, subroutines, library and user defined functions, and graphics.

Prerequisite: College Prep Computer Maintenance & Repair I and II

This course fulfills the Computer Education requirement.

Structured Programming II

This course is a continuation of the Structured Programming I. Students will continue to use the language of Visual BASIC and be introduced to Python, which is commonly used by colleges as an introductory programming language. This course will offer students an in-depth study of a high level language to develop expertise in analyzing and solving a variety of problems. It is recommended for students pursuing career in engineering, mathematics, science, and computer science. Students will be in the computer lab at all times and working on an independent or structured basis depending upon abilities and interests. Topics include: program structure, control statements, Boolean expressions, methods, functions, arrays, matrices, structures, files and even 2D and 3D graphics. A flash drive is recommended for storing programs.

Prerequisite: Structured Programming I

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

CP Computer Maintenance & Repair I

This course will introduce students to a career as an IT professional. Through assignments, presentations, lectures, discussions, videos, and simulations students will be introduced to hardware components, repair techniques, and troubleshooting fundamentals. Students will be required to maintain an 80% average to be able to work on real machines and to assist District Technical Support with actual school technical problems. Computer Maintenance and Repair I and II use an online IT certification program to prepare students for the CompTIA A+ certification exam. This is a Running Start course, so students can earn 6 college credits by completing Computer Maintenance and Repair I and II.

This course fulfills the Computer Education requirement.

This course is a Running Start course.

CP Computer Maintenance & Repair II

This is a continuation of the Hardware and Maintenance Repair course. Students will continue to learn about computer hardware and operating systems. They will also research new and emerging technologies and programs. Students will configure, price, build, re-build, troubleshoot and repair computers. They will deal with pricing, vendors, scheduling of maintenance and the accounting needed for computer repair. Coursework is geared for the preparation of students to take the A+ Certification Exam. Students will have the opportunity to mentor under both the Instructor and the IT Department repairing computers throughout the high school.

Prerequisite: College Prep Computer Maintenance & Repair I

This course is a Running Start course.

CP Visual Basic

This course introduces students to the visual programming environment using Microsoft Visual Studio. Visual Basic is used extensively by business and industry as one can create Windows applications without too much difficulty. Students will continue to develop their problem solving and logic skills while using a language that is currently used in industry. Students will be in the computer lab at all times and will learn the language in a structured or independent environment, depending upon their skills and interests. While writing programs for games and practical purposes, students will learn topics that include control structures, arrays, files, and graphics. In addition, some colleges use this language as an introductory course.

Prerequisite: Structured Programming I

This course is a Running Start course.

Web Development & Design I

This course introduces the overall production processes surrounding web site development with particular emphasis on design elements involving layout, navigation, and interactivity. Students will learn web design in preparation for jobs in the Internet economy. Hands-on web development exercises will be taught using HTML, Adobe Photoshop for producing web-ready images, and other professional web development software as needed. Students will have the opportunity to create their own web site by the end of the course.

This course fulfills the Computer Education requirement.

Web Development & Design II

This course is a continuation from Web Development & Design I. Students entering this program will learn advanced web development and design techniques. Areas of study will include the use of web-authoring software such as Adobe Dreamweaver, graphic layout and design, photographic editing,
scanning and digital multimedia production. Emphasis will be placed on the creation of visual content and will explore what constitutes a visually exciting and engaging site. All work will be hands-on and project-based. Students will gain valuable, transferable skills that can be used and integrated into other classes. Class projects involve the use of scanners, digital cameras, and a variety of software.

**Prerequisite:** Web Design & Development I

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**Word Processing**

**H0901 09-12 S1/S2 credits:** .5

In Word Processing, the student is taught to increase speed and accuracy in handling introductory to complex word projects. The goal of this course is to teach the student how to create professional looking documents by taking advantage of the simple and complex features of the Word Processing package.

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**Yearbook**

**H0912 09-12 FY credits:** 1

This is a practical hands-on course devoted to the production of the official Londonderry High School Reflections Yearbook. All phases of yearbook production will be covered and students will develop skills in photography (with digital cameras), digital image editing (using Adobe Photoshop), page design layout (using online desktop publishing software), story writing and editing, business and marketing, and teamwork. Leadership opportunities are available. Students who have experience with business computer applications, journalism, art, photography, marketing, accounting, and/or multimedia communications are urged to enroll. A student who assumes a leadership position – such as chief editor or business manager – must take Yearbook S1 and S2.

**Prerequisite:** Interview with instructor for students interested in the position of yearbook chief editor. This class may be repeated for credit.

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**Computer Interactive**

**H0807 10-12 S2 credits:** .5

This course is designed for students who are interested in sharing their knowledge with students who need one-on-one assistance to succeed. The course will allow the student the opportunity to work with special education students to help them participate in computer activities. This course is an excellent choice for those students considering a career in education or in working with the special needs population.

**Prerequisite:** Prior approval of instructor required.

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**CP Accounting II**

**H0904 10-12 FY credits:** 1

Further competence in accounting skills is emphasized in this course which includes more of the elements of accounting theory and more complicated and sophisticated accounting concepts. The computer will be integrated in all phases of the accounting cycle. Students will have the option of taking this course for honors or college prep credit. The teacher will present the honors option at the beginning of each semester.

**Prerequisite:** College Prep Accounting I

Students may agree to Honors contract while enrolled in course.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

---

**CP Business Management**

**H0907 10-12 S1/S2 credits:** .5

This course seeks to develop sound management concepts within students, as management plays a role in any future employment opportunity. Effective management requires decision-making abilities, long-range planning knowledge, human relations expertise, and motivational skills. Students learn the four basic functions of management. Students will also explore the components of a comprehensive business plan. This course is designed for the student who is exploring the possibility of a career in business or hopes to one day to open their own business. Students are encouraged to join FBLA, a student organization whose goal is for students to develop a "career success kit" to carry into their business and personal lives.

**This is a Running Start Course.**

**THIS COURSE IS OFFERED CONCURRENTLY FOR COLLEGE AND HIGH SCHOOL CREDIT THROUGH MANCHESTER COMMUNITY COLLEGE AND LONDONDERRY HIGH SCHOOL.**

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**CP Financial Planning**

**H0914 10-12 S1 credits:** .5

Financial Planning, an Academy of Finance required course, helps students learn about the importance of financial planning. It explores how proper financial planning helps people reach their life goals, how to set personal financial goals and a budget, and explains time-and-money relationships. The course includes lessons on saving, borrowing, credit, and all types of insurance. It covers various types of investments, including income and growth investments. The course also discusses retirement and estate planning.

Students apply their knowledge by creating a basic financial plan as they imagine themselves to be at the age of 25. Students use their knowledge to complete sections of a financial planning template, setting financial goals, determining insurance needs, creating investment strategies, and planning for retirement. Students are given a framework to help create a pathway to financial independence.

Students are encouraged to join FBLA, a student organization whose goal is for students to develop a "career success kit" to carry into their business and personal lives.

**This course is open to all students in grades 10-12 but required for Academy of Finance students.**

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

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**CP Financial Services**

**H0909 10-12 S2 credits:** .5

Financial Services, an Academy of Finance required course, provides students with an overview of banks and other financial services companies. The course begins by introducing students to the origins of money and banking, and then examines the early history of banking in the U.S. Students move into an in-depth study of the financial services industry and explore the types of companies that make up this industry. Students learn about the services offered by such companies, and analyze the ways these companies earn profits. This course also introduces students to the main concepts behind investing and discriminates among different ways to invest money. Students examine contemporary issues including the level of personal saving in the U.S.; ethics in the financial services industry; and the industry’s effect on communities and families, and careers in
This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

CP Marketing

This course is open to all students, but required Academy of Finance students.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

This year long course introduces students to advanced programming concepts and object oriented programming using the C++ programming language and Microsoft Visual Studio. The C++ language is used extensively in the sciences, engineering, and mathematics. Students will be in the computer lab at all times writing and debugging a variety of programming assignments and projects including Windows applications and games. Object oriented programming and GUI interfaces are used throughout the course. Students will further enhance their problem solving and critical thinking skills, which are skills that can be used in any career. Work is done in a structured or independent basis depending upon skills and interest. Topics include: program structure, control structures, Boolean expressions, loops, functions, structures, files, vectors, matrices, classes, linked lists, sorting and searching techniques. Flash/Thumb drives are strongly recommended for storing work. Through the Running Start program, students can earn 3 college credits by completing this course with a C or better.

Prerequisite: Structured Programming II or CP Visual Basic

This course is a Running Start course.
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<thead>
<tr>
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<th>Number</th>
<th>Semester</th>
<th>Grades</th>
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<td>FY 10</td>
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<td>H0315</td>
<td>FY 10-12</td>
<td>H0325</td>
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<td>Writing Experience: Classic Film</td>
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<td>S1/S2 12</td>
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**CP English 9**  
H0301 09 FY credits: 1  
This course is designed to provide an overview of the short story, novel, poetry, and the essay, as well as writing instruction. Basic literary terms and the writing of expository essays on literature are emphasized. Vocabulary development and basic English skills are also stressed. NCAA Approved.

**CP Freshman Humanities**  
H0325 09 FY credits: 2  
This course, which fulfills the Freshman English and Social Studies requirements, is designed to provide a comprehensive historical and literary survey of the development of civilization through World War II. Through various forms of literature and resources, students will examine important movements, ideas, and events in world history. The course will include a rigorous reading requirement as well as provide intensive writing instruction. Classes will incorporate discussions, projects, and media center research. NCAA Approved.  
Prerequisite: Recommendation of current instructor

Required summer reading will be assigned. Double period class. Earns 1 credit in Social Studies and 1 credit in English.

**Honors English 9**  
H0302 09 FY credits: 1  
This course is designed for students who have demonstrated an excellent understanding of language and literature. Emphasis will be placed upon the appreciation and understanding of genres and upon literature as an art form reflecting human experience. Stress will be on an in-depth understanding of our language and the mastery of English usage. Writing and speaking skills are utilized in helping students become better communicators. NCAA Approved.  
Prerequisite: A- or higher in previous course and recommendation of current instructor

Required summer reading will be assigned
Literature and Composition 9

H0300 09 FY credits: 1
This course is designed for students who need further support building reading and writing skills. Reading selections include classical as well as young adult literature with a focus on literary strategies. Student writing will include creative and expository responses. Community service and book clubs may also be used as strategies for extending the learning beyond the classroom. NCAA Approved.

World Studies

H0415 09 FY credits: 2
This is a humanities based course that fulfills the Freshman English and Social Studies requirements. Students will examine important movements, ideas, and events in world history through various forms of literature and other resources. Students will also receive study skills instruction with a focus on reading skills, vocabulary and comprehension. Strategies in note taking, test taking and textbook usage will also be provided. The course may include a variety of instructional approaches such as reading and writing instruction, class discussions, projects, media center research, field trips and guest speakers.
Prerequisite: Administrative Placement Only
Double period course. Earns 1 credit in Social Studies and 1 credit in English.

CP English 10

H0304 10 FY credits: 1
This course is designed for students who wish to enhance the communication skills of reading, writing, listening, and speaking. Students will strengthen their awareness of literature through the reading of short stories, plays, and novels and develop their writing skills through various assignments. Stress will be on an in-depth understanding of our language and the mastery of English usage.
NCAA Approved.

CP Sophomore Humanities

H0326 10 FY credits: 2
This course, which fulfills the sophomore English and Social Studies requirements, will provide a comprehensive historical and literary review of American History from 1877 through the early 1990s. Through various forms of literature and resources, students will examine important movements, ideas, and events in American History. The course will include a rigorous reading requirement as well as provide intensive writing instruction, class discussions, projects and media center research. NCAA Approved.
Prerequisite: Recommendation of current instructor
Double period class. Earns 1 credit in Social Studies and 1 credit in English.

Honors English 10

H0305 10 FY credits: 1
This is an advanced level course designed for students who have demonstrated a proficiency in English and who wish to further strengthen their communications skills. Stress will be on an in-depth understanding of our language and the mastery of English usage. This course develops an understanding of the literary genres through interpretation, skillful analysis and discussion. Students will develop their writing skills through various assignments, including an in-depth research paper. NCAA Approved.
Prerequisite: Honors English 9 or B+ or higher in previous course and recommendation of current instructor
Required summer reading will be assigned.

Literature and Composition 10

H0303 10 FY credits: 1
This course is designed for students who need extra focus on reading comprehension and writing skills. Using a mixture of classic and teen centered readings, various reading strategies are taught to aid understanding literature. These techniques can be used well beyond the classroom. Writing skills are honed using professional student generated examples to construct creative and expository composition. NCAA Approved.

CP Journalism I

H0315 10-12 FY credits: 1
Students in this course are reporters for The Lancer Spirit, the school newspaper, and will be required to meet all deadlines of the print schedule. This course is an in-depth study of the mechanics, functions and purpose of newspapers. Critical and analytical thinking will be refined and advanced through the practice of researching, interviewing and reporting. Students will learn how to write a variety of articles including news, features, sports, reviews and editorials by incorporating the quotations, facts and information they've acquired throughout the news-writing process. Students will be required to discuss and answer ethical questions essential to appreciating the significance of journalism in society as well as the importance of First Amendment rights. In this course, students will be expected to write and revise articles for submission and be prepared to finance print production through the sale of advertising. NCAA Approved.
Prerequisite: Conference with instructor

American Experience

H0306 11 FY credits: 1
This course is a tech-integrated junior English course. In this course, we will continue to develop our reading comprehension skills as we encounter works from each of the following periods and movements in American Literature: Colonialism, Neoclassicism, Romanticism, Realism, Naturalism, Modernism, Harlem Renaissance, and Contemporary. Our skills in writing will continue to be developed through the writing of a variety of expository and creative papers with a special focus on the research process and the thesis-based research paper. Critical analysis of film, student presentations, and academic discourse activities will provide us with opportunities to further develop literacy in a variety of media beyond print. Individual needs and interests will receive special attention. NCAA Approved.

CP English 11

H0307 11 FY credits: 1
This course is a tech-integrated college preparatory English course designed to provide students with the opportunity to gain the skills necessary for success in college. In this course, we will further develop our critical thinking skills as we read and respond to selected literary works from each of the following periods and movements in American Literature: Colonialism, Neoclassicism, Romanticism, Realism, Naturalism, Modernism, Harlem Renaissance, and Contemporary. We will also continue to develop and expand upon our writing skills through the writing of a variety of expository and creative papers with a special focus on the research process and the thesis-based research paper. Critical analysis of film, student presentations, and academic discourse activities will provide us with opportunities to further develop literacy in a variety of media beyond print. As with most college preparatory courses, this course involves a consistent homework load of long-term and short-term assignments. NCAA Approved.
Honors English 11

This course is a tech-integrated honors English course designed to provide college-bound students with the opportunity to critically analyze and interpret selected literary works from each of the following periods and movements in American Literature: Colonialism, Neoclassicism, Romanticism, Realism, Naturalism, Modernism, Harlem Renaissance, and Contemporary. Our approach to the literature for this course offers students a challenge in terms of reading pace and/or depth of analysis. We will hone and expand upon our writing skills through a variety of expository and creative papers with a special focus on the research process and the thesis-based research paper. Critical analysis of film, student presentations, and academic discourse activities will provide us with opportunities to further develop literacy in a variety of media beyond print. As with most honors courses, this course involves a consistent homework load of long-term and short-term assignments as well as summer reading. NCAA Approved.

Prerequisite: Honors English 10 or B+ or higher in previous course and recommendation of current instructor

Required summer reading will be assigned.

AP English Language and Composition

This course, designed for students capable of doing college level work in English, will engage students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. This course emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that foster the development of writing facility in any context. This composition course teaches student to read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by professional organizations. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. NCAA Approved.

Prerequisite: Recommendation of current instructor

Required summer reading will be assigned.

CP Contemporary Literature

This course uses contemporary literature to focus on timeless conflicts and issues that we face today. Daily reading assignments help students to hone their critical and analytical skills. Verbal and written expressions receive emphasis, as does vocabulary development. Material is selected to enhance student appreciation of the post-World War II human condition through literature. NCAA Approved.

CP Journalism II

Students in this course are responsible for producing The Lancer Spirit as editors on the newspaper staff. Designed to function as a workshop enhancing students’ writing and leadership skills, this course will provide students with the opportunity to focus their learning. This course will emphasize critical and analytical thinking through management, organization and production of the school newspaper. In addition to writing their own stories, students will learn to critique, revise and edit the stories of reporters and other editors. They will also design pages with stories, graphics and photographs using programs like InDesign® and Photoshop®. Students are also required to finance print production through the sale of advertising. NCAA Approved.

Prerequisite: College Prep Journalism I and successful completion of application process with adviser approval.

CP Public Speaking

This course gives students an opportunity to develop and stretch their abilities in a wide range of spoken applications by emphasizing the incorporation of both writing and speaking skills. Students will research, prepare, write and deliver specific types of speeches. When possible, technological integration of these skills will be used, including the video and audio taping of the student’s work. Students will also learn how to effectively use presentation aides such as video clips and PowerPoint presentations as part of their experience in this course. This course is offered concurrently for college and high school credit through SNHU and Londonderry High School. NCAA Approved.

CP Women in Literature

This course will examine the various roles played by female characters in literature. Students will be expected to write papers, read various works by and about women and make class presentations. NCAA Approved.

CP World Literature

This course is designed for those students who wish to broaden their reading experiences by exposure to some of the world’s eminent authors. Selections will be made from European, Greek, African, Latin American, Icelandic, and East Asian authors. Major literary themes will be emphasized. NCAA Approved.

Dramatic Literature

This course will concentrate on the reading, discussion, and analysis of dramatic works from ancient times to the present, including comedies, social dramas, and satires. Oral readings and written assignments are required. NCAA Approved.

Honors College Composition

Students enrolled in College Composition will receive instruction and practice in writing expository prose showing sensitivity to both audience and purpose. Time will be spent in developing the writing skills necessary for success at the college level. Students will spend time in invention, drafting, and revision strategies with instruction in reading critically, analyzing audience, and developing style. Typical assignments will include the personal narrative, profile, documented research, and position genres, among others. This course is offered concurrently for college and high school credit through SNHU and Londonderry High School. NCAA Approved.
Honors Creative Writing  
**H0332  11-12 S1/S2 credits: .5**

This is an introductory creative writing course designed to acquaint students with the craft of writing and the skills that will be required in subsequent creative writing workshops. Students will explore such craft issues as point of view, voice, characterization, dialogue, setting, conflict, imagery, poetic structure, and dramatic scene development. Students will be expected to submit a number of writing exercises, including stories and poems. Students will improve their writing skills through peer conferencing, peer editing, class workshopping, and teacher evaluation. It is the expectation that students will read and comment on their peers’ writing with thoughtful and constructive criticism, as well as read and discuss published work. This course is offered concurrently for college and high school credit through SNHU and Londonderry High School. NCAA Approved.

### Mass Media  
**H0309  11-12 S1/S2 credits: .5**

This course is designed to help students comprehend various types of mass media and how they help shape our thinking. Students will study various persuasive media, such as the newspaper, magazine, radio, television, film and video. Oral and written assignments are required, as well as a lengthy, in-depth project as a culminating activity.

### Sports Journalism  
**H0329  11-12 S1/S2 credits: .5**

This course is designed to expose students to different genres of sports writing, novels, film, feature stores, and daily reporting. Students will review sports writing published online and in newspapers and magazines to analyze and discuss how these journalists write.

### AP English Literature and Composition  
**H0324  12 FY credits: 1**

This course, designed for students capable of doing college level work in English, will provide an intensive introduction to the study of British and other world literatures. Students will learn to evaluate pieces of writing by analyzing background, structure, technique and theme and will learn to develop and write substantive critical analyses. The class will serve as an introduction to some current college-level literary theory as well. Students are required to complete summer reading. This course is comparable to a freshman course in college. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. NCAA Approved.

**Prerequisite: Recommendation of current instructor**

**Required summer reading will be assigned.**

### CP Science Fiction & Fantasy  
**H0310  12 S1/S2 credits: .5**

This course introduces the science fiction genre through short stories, novels, and film study. The course will also examine scientific phenomena and events with a focus on the question of “What if?” The many aspects of fantasy (medieval, dark, heroic) are analyzed through examination of short stories, novels, and film. NCAA Approved.

### CP Writing Workshop  
**H0319  12 S1/S2 credits: .5**

This course is designed for those students who desire to express their ideas and feelings creatively through disciplined writing. Emphasis is placed on developing previously learned skills through weekly writing assignments in the genres of short story, poetry, and essay writing. Students will improve their writing skills through peer conferencing, peer editing, class workshopping, and teacher evaluation. In addition to the weekly writing assignments, students will compile a portfolio of writing that demonstrates the range and proficiency in their writing. Participation with Impressions, the Literary Magazine, is encouraged. NCAA Approved.

### Honors Writing Workshop  
**H0320  12 S1/S2 credits: .5**

This course is designed for those students who have already demonstrated a proficiency in writing and who wish to extend that proficiency through writing personal essays, extended pieces of fiction, poetry and advanced expository styles of writing. Students should expect weekly writing assignments and will improve their writing skills through peer conferencing, peer editing, class workshopping, and self-evaluation. In addition to the weekly writing assignments and required readings, students will compile a portfolio of writing that demonstrates the range and proficiency of their writing. NCAA Approved.

**Prerequisite: An entry portfolio and recommendation of current instructor**

**Required summer reading will be assigned.**

### Science Fiction Experience  
**H0311  12 S1/S2 credits: .5**

This course is designed to stimulate the imagination through reading, writing, and investigation of science fiction literature and science fiction phenomena. Reading comprehension and writing skills will continue to be developed.

### Writing Experience: Classic Film  
**H0330  12 S1/S2 credits: .5**

This writing course links by units to film genre. Students will develop a number of essays and creative pieces drawn from a film classic that has been viewed in class. Silent, western, innovative, and mainstream classic Hollywood films such as Citizen Kane, Guess Who’s Coming to Dinner, Stagecoach and The Gold Rush will provide the impetus for the written work. The writing process will be emphasized. NCAA Approved.
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<th>Number</th>
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**ESOL**

- **H1900** 09-12 FY  credits: 1

**ESOL Study Lab**

- **H1903** 09-12 S1/S2  credits: .5

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The complete, official program of studies can be found at [HTTP://INFO.LONDONDERY.ORG](HTTP://INFO.LONDONDERY.ORG)
# Family and Consumer Sciences

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clothing Construction</td>
<td>H1106</td>
<td>09-12</td>
<td>S1/S2</td>
<td></td>
</tr>
<tr>
<td>Design in Clothing</td>
<td>H1105</td>
<td>09-12</td>
<td>S1 or S2</td>
<td>Design in Clothing</td>
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<tr>
<td>Foods II</td>
<td>H1103</td>
<td>09-12</td>
<td>S1/S2</td>
<td>Introduction to Foods</td>
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<tr>
<td>Housing and Design</td>
<td>H1101</td>
<td>09-12</td>
<td>S2</td>
<td></td>
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<tr>
<td>Introduction to Foods</td>
<td>H1102</td>
<td>09-12</td>
<td>S1/S2</td>
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</tr>
<tr>
<td>Human Relations</td>
<td>H1107</td>
<td>10-12</td>
<td>S1</td>
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</tr>
<tr>
<td>Independent Living and Money Management</td>
<td>H1109</td>
<td>10-12</td>
<td>FY</td>
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</tr>
<tr>
<td>Parenting and Children</td>
<td>H1108</td>
<td>10-12</td>
<td>S2</td>
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</tr>
<tr>
<td>Foods Interactive</td>
<td>H1110</td>
<td>11-12</td>
<td>S2</td>
<td>Introduction to Foods and interview with instructor</td>
</tr>
</tbody>
</table>

This course will further develop skills learned in Design in Clothing as students select appropriate fabrics and patterns and construct quality garments, quilts, and craft projects. In addition, students will learn about fiber identification and fabric construction as well as the appropriate use and care of each. Emphasis in this course is on independent study with teacher guidance. Students are responsible for providing material for their choice of personal clothing or craft construction projects.

**Prerequisite:** Design in Clothing

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<td>H1108</td>
<td>10-12</td>
<td>S2</td>
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</tbody>
</table>

**Clothing Construction**

This course will explore the role clothing plays in their lives, as well as investigate fashion history and design. In addition, we will focus on making informed decisions regarding the selection and care of clothing. A large amount of class time will focus on basic sewing skills and construction techniques with emphasis on clothing, quilting, and craft construction. Sewing projects are selected according to student interest and ability level. Students are responsible for providing material of their choice for sewing projects.

**Prerequisite:** Design in Clothing

**Foods II**

This course is designed for those students interested in more in-depth study of food preparation and how food affects our daily life. Units covered will include: advanced food preparation and elementary baking, regional and international foods, and nutrition for good health, including evaluating our own food habits. Other special interest topics include making fresh pasta, baking fresh bread and pastries, and cake decorating. These topics will be covered through group discussions, teacher demonstrations, lectures, guest speakers, student projects, and laboratory experience.

**Prerequisite:** Introduction to Foods

**Housing and Design**

This course is designed to explore many of the aspects of housing. Students will study the history and influences on housing in the United States. They will learn how to make housing selections as well as learn about acquiring and financing a home. They will study the evolution of housing exteriors and housing plans. During the unit on interior design, students will learn about the elements and principles of design, color, textiles, furniture, windows, lighting, and accessories.

**Prerequisite:** Introduction to Foods

**Introduction to Foods**

This introductory course for all students will concentrate on the principles of nutrition, basic food preparation and handling, and meal planning. Various techniques will be used to cover these topics, including group discussions, lectures, audiovisual materials, demonstrations, taste tests, guest speakers, and laboratory experience.

**Human Relations**

This course will explore the human relationship skills that people need, including who you are as a person, your heredity, your environment, and how you respond to your environment. Skill areas include problem solving, values, goals, resources, standards, decision making, communication skills, I - messages, listening skills, relationships, group dynamics, sexual harassment. Students will also research wedding costs and options. Students will learn the skills managers need to develop, including leadership and dealing with crisis, as well as techniques for becoming more effective managers, peers, and partners. Students will be introduced to the international aspects of human relations.

**Independent Living and Money Management**

This course is designed to help prepare students to live and function independently in today's society. Modern aspects of practical living will include consumerism, decision-making, money management, buying and financing a car, obtaining insurance, renting an apartment. Various techniques will be used to cover these topics, including group discussions, lectures, independent study, projects, and guest speakers.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

**Parenting and Children**

This course is designed to help students develop an understanding of the important responsibilities, rewards and challenges of parenthood and childcare. Topics will include

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prenatal care and development, pregnancy and childbirth, as well as emotional, social, physical and intellectual development of children from birth to age six. Emphasis will also be given to the following areas: special concerns of teen parenting, age appropriate learning activities for children, and healthcare and safety for children. These topics will be introduced through group discussions, lecture, guest speakers, and field trips. Students will either participate in an infant simulation activity or complete an alternative project selected by the student with teacher approval. We complete the year with our highly anticipated “Fun Fest” activity for preschoolers.

THIS COURSE IS OFFERED CONCURRENTLY FOR COLLEGE AND HIGH SCHOOL CREDIT THROUGH SNHU AND LONDONDERRY HIGH SCHOOL.

Foods Interactive

This course is designed to allow students with good food preparation skills the opportunity to share their knowledge with students who need one-on-one assistance to succeed in the foods lab. The course will allow the student instructors the opportunity to work with special education students to help them select and prepare nutritious meals and snacks. Special education students will have the opportunity to work in a truly inclusive environment. In addition to working with their peers, the student instructors may be responsible for leading the class in one project of personal choice. This course is an excellent choice for those students considering a career in education or working with the special needs population.

Prerequisite: Introduction to Foods and interview with instructor

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## Foreign Language

<table>
<thead>
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<tbody>
<tr>
<td>CP French I</td>
<td>H0600</td>
<td>FY</td>
<td>09-12</td>
<td>This is an introductory course that teaches basic vocabulary, good pronunciation and elementary grammatical structures. The use of varied audio-lingual and audiovisual teaching techniques stresses all four language skills: listening comprehension, speaking, reading and writing. Intensive aural-oral practice is offered through a variety of media materials. The student is exposed to Francophone lifestyles and culture through the reading selections, songs, cooking and multi-media. NCAA Approved.</td>
</tr>
<tr>
<td>CP French II</td>
<td>H0601</td>
<td>FY</td>
<td>09-12</td>
<td>Students expand their vocabulary, develop speaking fluency and refine their pronunciation in this continuing course. More grammatical concepts are introduced and the reading selections are more extensive. Structured composition is also included. An appreciation of Francophone cultures is a prime goal. A variety of activities and audiovisual materials are used. NCAA Approved. Prerequisite: College Prep French I or recommendation from 8th grade French teacher</td>
</tr>
<tr>
<td>CP German I</td>
<td>H0609</td>
<td>FY</td>
<td>09-12</td>
<td>This course is designed to introduce the student to the sound system and pronunciation of the German language, to build vocabulary, and to teach the fundamental grammatical concepts. The four basic communications skills – listening comprehension, speaking, reading and writing – are taught through various aural-oral and audiovisual techniques. Students are expected to converse in German on limited topics. Intensive aural-oral practice is afforded through a variety of media materials. The German civilization is presented in a basic introduction to geography, history and contemporary lifestyle. Music, films, and projects are used to enhance the development of the four language skills. NCAA Approved.</td>
</tr>
<tr>
<td>CP Latin I</td>
<td>H0613</td>
<td>FY</td>
<td>09-12</td>
<td>This introduction to an ancient language covers the declensions, conjugations, principle parts of verbs and the five cases of nouns and adjectives. These concepts are studied via translation of short pieces depicting life in ancient Rome and mythological characters. The student will learn vocabulary which contains roots in common with modern English and modern foreign languages. While the course encourages good pronunciation, the primary purpose is to read Latin. Class projects, films and occasional field trips foster an appreciation of</td>
</tr>
<tr>
<td>CP Spanish I</td>
<td>H0605</td>
<td>FY</td>
<td>09-12</td>
<td>Grade of 83% or above in College Prep Spanish I or recommendation from 8th grade Spanish teacher</td>
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<tr>
<td>CP Spanish IIA</td>
<td>H0606</td>
<td>FY</td>
<td>09-12</td>
<td>College Prep Spanish I or recommendation from 8th grade Spanish teacher</td>
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<tr>
<td>CP Spanish IIB</td>
<td>H0621</td>
<td>FY</td>
<td>09-12</td>
<td>College Prep Spanish I or Spanish 7 &amp; 8 at LMS</td>
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<tr>
<td>CP French III</td>
<td>H0602</td>
<td>FY</td>
<td>10-12</td>
<td>College Prep French II</td>
</tr>
<tr>
<td>CP German II</td>
<td>H0610</td>
<td>FY</td>
<td>10-12</td>
<td>College Prep German I</td>
</tr>
<tr>
<td>CP Latin II</td>
<td>H0614</td>
<td>FY</td>
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<td>College Prep Latin I</td>
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<tr>
<td>CP Spanish IIIA</td>
<td>H0622</td>
<td>FY</td>
<td>10-12</td>
<td>Grade of 83% or above in College Prep Spanish IIA or 90% or above in College Prep Spanish IIB</td>
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<tr>
<td>CP Spanish IIIB</td>
<td>H0623</td>
<td>FY</td>
<td>10-12</td>
<td>College Prep Spanish IIA or IIB</td>
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<tr>
<td>CP French IV Grammar and Conversation</td>
<td>H0603</td>
<td>FY</td>
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<td>College Prep French III</td>
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<td>CP Spanish IV Grammar &amp; Conversation</td>
<td>H0608</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Spanish IIIA or IIIIB</td>
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<tr>
<td>Honors French IV</td>
<td>H0620</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep French III and recommendation of current instructor.</td>
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<tr>
<td>Honors German Composition and Literature</td>
<td>H0612</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep German II</td>
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<tr>
<td>Honors German Conversation and Culture</td>
<td>H0611</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep German II</td>
</tr>
<tr>
<td>Honors Latin Poetry</td>
<td>H0616</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Latin II</td>
</tr>
<tr>
<td>Honors Latin Prose</td>
<td>H0615</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Latin II</td>
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<tr>
<td>Honors Spanish IV</td>
<td>H0618</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Spanish IV Grammar and Conversation, or a grade of 83% or above in College Prep Spanish IIIA and recommendation of current instructor.</td>
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<tr>
<td>AP French Language and Culture</td>
<td>H0604</td>
<td>FY</td>
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<tr>
<td>AP Spanish Language and Culture</td>
<td>H0619</td>
<td>FY</td>
<td>12</td>
<td>Honors Spanish IV and recommendation of current instructor</td>
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</tbody>
</table>

**AP French Language and Culture**

**AP Spanish Language and Culture**

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CP Spanish I  

This course is designed to introduce the student to the Spanish language and culture. Basic vocabulary and basic grammatical concepts and pronunciation skills are learned through a variety of audio-lingual activities. These may include listening/speaking exercises, mini student dialogues and skits. Music, puzzles, videos and projects enhance the development of the four basic language skills: listening, speaking, reading and writing. NCAA Approved.

Prerequisite: College Prep Spanish I or recommendation from 8th grade Spanish teacher

CP Spanish IIA  

This course, conducted to a great extent in Spanish and at an accelerated pace, continues the development of the four basic skills acquired in College Prep Spanish I. It introduces more vocabulary and grammatical concepts along with readings and composition work. There is an emphasis on cultural awareness as it pertains to an understanding of the Hispanic people in the United States and around the world. Spanish is used a great deal in class and students are made aware of how Spanish will help them in their future careers. NCAA Approved.

Prerequisite: Grade of 83% or above in College Prep Spanish I or recommendation from 8th grade Spanish teacher

CP Spanish IIB  

Similar to College Prep Spanish IIA, this course continues the development of the four basic skills acquired in Spanish I. This course is designed to provide the student with additional reinforcement of Spanish conversation and grammatical skills prior to taking College Prep Spanish IIIA or IIB. College Prep Spanish IIB introduces vocabulary and grammatical concepts along with readings and composition work. There is an emphasis on cultural awareness as it pertains to an understanding of the Hispanic people in the United States and around the world. Students are made aware of how Spanish will help them in their future careers. NCAA Approved.

Prerequisite: College Prep Spanish I or Spanish 7 & 8 at LMS

Homework is assigned nightly, either written or oral practice.

CP French III  

Conducted predominately in French, this course provides advanced grammatical concepts as well as an introduction to French literature and contemporary writings from several French-speaking countries. Poetry, short stories and film will be studied, along with a variety of cultural readings, with all activities designed to span all four language skills while developing a realistic up-to-date awareness of French culture. NCAA Approved.

Prerequisite: College Prep French II

CP German II  

The four language skills are expanded and practiced in this continuing course, with German becoming the dominant classroom language. Vocabulary acquisition continues, more detailed grammatical structures are presented and reading and writing are given more emphasis at this level. Cultural and historical presentations from both reading selections and audiovisual materials foster an understanding of the German people. Focus on German as a communication tool continues. NCAA Approved.

Prerequisite: College Prep French III

CP Latin II  

This course reviews and expands upon the material learned in College Prep Latin I. Vocabulary acquisition continues and the subjunctive mood and its use in clauses of purpose and result are presented. The readings/translations are more difficult than in the first year and are a combination of those written for the high school student and some works by Latin authors such as Julius Caesar. There is more research into the history of Rome and its most famous citizens. NCAA Approved.

Prerequisite: College Prep Latin I

CP Latin III  

This course, conducted entirely in Spanish, is offered for those students who wish to continue their studies of the Spanish language and culture, but do not intend to take the AP Latin course. This class will focus on intensive grammar review, continued development of listening and speaking skills and contemporary readings. Students may choose to continue to Honors Latin IV the following year.

Prerequisite: College Prep Latin II

CP Spanish IIIA  

This course, conducted in French, is offered for those students who wish to continue their studies in the French language, but do not intend to take the AP French course. The class will focus on intensive grammar review, continued development of listening and speaking skills and contemporary readings. Students may choose to continue to Honors French IV the following year.

Prerequisite: College Prep Spanish IIA or IIB

Homework is assigned nightly, either written or oral practice.

CP German III  

Conducted predominately in German, this course provides advanced grammatical concepts as well as an introduction to German literature and contemporary writings from several German-speaking countries. Poetry, short stories, and film will be studied, along with a variety of cultural readings, all activities designed to span all four language skills while developing a realistic up-to-date awareness of German culture. NCAA Approved.

Prerequisite: College Prep German II

CP French IV Grammar and Conversation  

This course, conducted in French, is offered for those students who wish to continue their studies in the French language, but do not intend to take the AP French course. The class will focus on intensive grammar review, continued development of listening and speaking skills and contemporary readings. Students may choose to continue to Honors French IV the following year.

Prerequisite: College Prep French III

CP Spanish IV Grammar & Conversation  

This course, conducted entirely in Spanish, is offered for those students who wish to continue their studies of the Spanish language and Hispanic culture, but do not intend to take the AP
Spanish course. The class will focus on an intensive review of grammar, continued development of listening and speaking skills and culturally relevant readings. Upon successful completion of this course, students may choose to continue to Honors Spanish IV the following year. NCAA Approved.
Prerequisite: College Prep Spanish IIIA or IIIB

**Honors Latin Prose**

H0615 11-12 FY credits: 1

This course is primarily devoted to the study of Latin prose. The class will focus on an intensive review of grammar, continued development of listening and speaking skills and culturally relevant readings. Upon successful completion of this course, students may choose to continue to Honors Latin Prose the following year. NCAA Approved.
Prerequisite: College Prep Latin II

**Honors Latin Poetry**

H0616 11-12 FY credits: 1

This course is devoted to Latin poetry. Vergil’s immortal epic, “The Aeneid,” provides a unique opportunity to study the golden age of classical literature during the Pax Romana of Augustus. Time is spent in the review of grammar and syntax. Poetic meter and figures of speech are introduced. Mythology is studied as an integral part of Latin poetry. NCAA Approved.
Prerequisite: College Prep Latin II

**AP Spanish Language and Culture**

H0619 12 FY credits: 1

This course, conducted entirely in Spanish, is designed to prepare students for the AP Spanish Language and Culture exam. It is for students who wish to develop their proficiency in all four language skills: listening, speaking, reading and writing. The course is intended to help students comprehend formal and informal spoken Spanish, acquire vocabulary, grasp structures to allow the easy and accurate reading of various sources, compose expository passages and express ideas orally with accuracy and fluency. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. NCAA Approved.
Prerequisite: Honors Spanish IV and recommendation of current instructor

**Honors Spanish IV**

H0618 11-12 FY credits: 1

This course, conducted entirely in Spanish, uses a fluency-based approach designed to sharpen the student’s language skills: listening, speaking, reading and writing. Students will use the grammar they have mastered as well as acquire some of the more refined rules of the language. A variety of literary styles and forms are included: poetry, short stories, plays, novels and film. Students must take this course if they intend to take AP Spanish the following year. A grade of B or above in College Prep Spanish III is expected. NCAA Approved.
Prerequisite: College Prep Spanish IV Grammar and Composition or a grade of 83% or above in College Prep Spanish IIIA and recommendation of current instructor

**AP French Language and Culture**

H0604 12 FY credits: 1

This course, conducted entirely in French, is designed to prepare students for the AP French Language and Culture exam. It is for students who wish to develop their proficiency in all four language skills: listening, speaking, reading and writing. The course is intended to help students comprehend formal and informal spoken French, acquire vocabulary, grasp structures to allow the easy and accurate reading of various sources, compose expository passages and express ideas orally with accuracy and fluency. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. NCAA Approved.
Prerequisite: Honors French IV and recommendation of current instructor

**Honors French IV**

H0620 11-12 FY credits: 1

Conducted in French, this course is designed to further the development of the advanced student’s language skills. Deeper understanding and appreciation of the French culture is fostered through the study of history, literature and the arts from their origins to the Revolution. Readings will also be drawn from the works of contemporary writers and thinkers throughout the French-speaking world. A variety of literary styles and forms are included: poetry, short stories, plays, novels and film. Students must take this course if they intend to take AP French the following year. A grade of B or above in College Prep French III is expected. NCAA Approved.
Prerequisite: College Prep French III and recommendation of current instructor

Required summer project will be assigned.

**Honors German Composition and Literature**

H0612 11-12 FY credits: 1

Conducted in German, this course is designed to carry on the development of the advanced student in the four language skills, while deepening their insights in Germanic culture through the works of German writers, including, but not limited to, Kafka and Dürrenmatt. Additionally, students will participate in film analysis. A comprehensive grammar review will be provided. Development of communication skills continues. NCAA Approved.
Prerequisite: College Prep German II
Course is offered in odd years

**Honors German Conversation and Culture**

H0611 11-12 FY credits: 1

Conducted in German, this course provides intensive conversational practice and aims at refining the student’s fluency, both oral and written. Students will continue to expand their vocabulary. The course includes cultural and literary readings. Contemporary media is used to supplement the text and can act as a basis for conversation and individual and group projects. Development of speaking, listening, reading and writing skills continues. NCAA Approved.
Prerequisite: College Prep German II
Course is offered in even years

**Honors Latin Prose**

H0615 11-12 FY credits: 1

This course is primarily devoted to the study of Latin prose through the writings of Cicero. Historians constitute the greater part of the year’s work. Selections from Sallust and the poetry of Ovid are also read. Time is spent in the review of syntax and the addition of new forms and principles of grammar. This historical and cultural emphasis is directed toward the political and social conditions of Rome during Cicero’s life. NCAA Approved.
Prerequisite: College Prep Latin II

**Honors Latin Poetry**

H0616 11-12 FY credits: 1

This course is devoted to Latin poetry. Vergil’s immortal epic, “The Aeneid,” provides a unique opportunity to study the golden age of classical literature during the Pax Romana of Augustus. Time is spent in the review of grammar and syntax. Poetic meter and figures of speech are introduced. Mythology is studied as an integral part of Latin poetry. NCAA Approved.
Prerequisite: College Prep Latin II

Course is offered in odd years
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Health

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<th>Number</th>
<th>Semester</th>
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<th>Prerequisite</th>
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<tbody>
<tr>
<td>Health</td>
<td>H1800</td>
<td>S1/S2</td>
<td>09</td>
<td></td>
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<tr>
<td>Wellness</td>
<td>H0201</td>
<td>FY</td>
<td>09</td>
<td></td>
</tr>
<tr>
<td>Athletic Training I / Sports Medicine</td>
<td>H1802</td>
<td>S1</td>
<td>10-12</td>
<td>Health or Wellness</td>
</tr>
<tr>
<td>Athletic Training II / Sports and Exercise Science</td>
<td>H1803</td>
<td>S2</td>
<td>10-12</td>
<td>Athletic Training I/Sports Medicine</td>
</tr>
<tr>
<td>Contemporary Issues in Health</td>
<td>H1801</td>
<td>S2</td>
<td>10-12</td>
<td>Health or Wellness</td>
</tr>
<tr>
<td>Healthy Lifestyle</td>
<td>H1805</td>
<td>S1</td>
<td>11-12</td>
<td>Health or Wellness, Physical Education I and Sophomore PE Elective</td>
</tr>
</tbody>
</table>

Health (H1800 09 S1/S2 credits: .5)

This course is required of all freshmen in addition to the physical education requirements. The course will cover units in nutrition, human growth and development, mental health, conflict resolution, suicide, substance abuse, sexually transmitted diseases, and coping with stress. Classes will involve lectures, discussions, and will be supplemented with films and guest speakers.

Wellness (H0201 09 FY credits: 1)

Freshman Wellness is a one year course combining health and fitness components designed to help students acquire the knowledge, practical skills, and habits needed to enhance personal health and wellness. Students will be given the opportunity to better understand the relationship between exercise, activity, nutrition, and healthy living by developing their own lifelong fitness program. Students will be required to change clothing for the PE activities. The course will fulfill the .5 Health credit and the .5 PE I credit required for graduation. The course will fulfill the .5 Health credit and the .5 PE I credit required for graduation.

Athletic Training I / Sports Medicine (H1802 10-12 S1 credits: .5)

This course is designed for the student who is interested in athletic training, physical therapy, or in simply improving his or her own performance in life and on the playing field. The topics to be explored are the responsibilities of an Athletic Trainer, basic anatomy and physiology, first aid and CPR, emergency procedures, tissue response to healing, protective sports equipment, training and conditioning principles, and nutritional considerations. The material will be presented in the form of lectures, practical hands-on experience, guest speakers, integration of technology, and field trips. This course will include a practicum where students will be asked to work with an athletic team/trainer outside of school hours. Prerequisite: Health or Wellness

Athletic Training II / Sports and Exercise Science (H1803 10-12 S2 credits: .5)

This course is designed to provide opportunities for students to gain valuable information on sport science related topics while continuing their Athletic Training studies. Biomechanics, Exercise Physiology, Exercise Nutrition, Skill Acquisition, and Sport Psychology topics will be incorporated into various sport units allowing students to apply learned theoretical skills into practical scenarios. In addition, students will study specific regions of the body and take an in-depth look at injuries to the foot, ankle, knee, hip, shoulder, spine, and head/face. Students are required to participate in classroom and physical activities, and complete a practicum where they will be asked to observe and possibly assist a certified team trainer. The material will be presented in the form of lectures, guest speakers, practical demonstrations and field trips. Prerequisite: Athletic Training I/Sports Medicine

Contemporary Issues in Health (H1801 10-12 S2 credits: .5)

This course is designed to allow students to investigate a variety of health issues related to lifestyle choices and behaviors. Using class discussions and independent research students will examine several aspects of current health topics and trends and have an opportunity to develop and defend their own individual philosophies on these topics. Prerequisite: Health or Wellness

Healthy Lifestyle (H1805 11-12 S1 credits: .5)

The course introduces students to current health practices and theory. The focus is on relationship between lifestyle choice and personal health. Various assessment techniques will be utilized to determine personal risk in order to make positive changes to their lives and others. This course will explore topics of nutrition, fitness, weight management, stress management, and positive relationships as part of a total wellness program. Using knowledge gained from self-assessments, guest speakers, and field trips students evaluate their own health practices. Prerequisite: Health or Wellness, Physical Education I and Sophomore PE Elective
## Mathematics

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Math I</td>
<td>H0500</td>
<td>FY</td>
<td>09-10</td>
<td></td>
</tr>
<tr>
<td>Pre-Algebra</td>
<td>H0503</td>
<td>FY</td>
<td>09-10</td>
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<tr>
<td>CP Algebra IA</td>
<td>H0504</td>
<td>FY</td>
<td>09-12</td>
<td>Pre-Algebra or recommendation from 8th grade teacher</td>
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<td>CP Algebra IB</td>
<td>H0518</td>
<td>FY</td>
<td>09-12</td>
<td>Pre-Algebra or recommendation from 8th grade teacher</td>
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<tr>
<td>CP Algebra IIA</td>
<td>H0510</td>
<td>FY</td>
<td>09-12</td>
<td>College Prep Algebra I A or B</td>
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<tr>
<td>Honors Algebra II/Trigonometry</td>
<td>H0511</td>
<td>FY</td>
<td>09-12</td>
<td>Recommendation of 8th Grade Teacher</td>
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<td>Integrated Math II</td>
<td>H0501</td>
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<td>10-11</td>
<td>Integrated Math I</td>
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<td>CP Algebra IIB</td>
<td>H0509</td>
<td>FY</td>
<td>10-12</td>
<td>College Prep Algebra I A or B</td>
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<td>CP Geometry A</td>
<td>H0507</td>
<td>FY</td>
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<td>College Prep Algebra II A or B</td>
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<tr>
<td>CP Geometry B</td>
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<tr>
<td>Honors Geometry</td>
<td>H0508</td>
<td>FY</td>
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<td>College Prep Algebra II A</td>
</tr>
<tr>
<td>Algebra Concepts</td>
<td>H0502</td>
<td>FY</td>
<td>11-12</td>
<td>Integrated Math II</td>
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<td>AP Calculus AB</td>
<td>H0516</td>
<td>FY</td>
<td>11-12</td>
<td>Honors Pre-Calculus</td>
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<tr>
<td>AP Statistics</td>
<td>H0521</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Geometry A or Honors Geometry</td>
</tr>
<tr>
<td>CP Calculus</td>
<td>H0520</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Pre-Calculus or Honors Pre-Calculus</td>
</tr>
<tr>
<td>CP Pre-Calculus</td>
<td>H0512</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Algebra II A or Honors Algebra II / Trig</td>
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<tr>
<td>CP Probability &amp; Statistics</td>
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<td>S1/S2</td>
<td>11-12</td>
<td>College Prep Algebra II A or B and Geometry A or B</td>
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<td>Honors Pre-Calculus</td>
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<td>FY</td>
<td>11-12</td>
<td>Honors Algebra II/Trig</td>
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<tr>
<td>CP Finite Mathematics Topics</td>
<td>H0513</td>
<td>S1/S2</td>
<td>12</td>
<td>College Prep Algebra II A or B and Geometry A or B</td>
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<tr>
<td>CP Trigonometry</td>
<td>H0519</td>
<td>S1/S2</td>
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<td>College Prep Algebra II A or B and CP Geometry A or B</td>
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<tr>
<td>Fundamentals of College Algebra</td>
<td>H0522</td>
<td>FY</td>
<td>12</td>
<td>Algebra Concepts or College Prep Algebra II B.</td>
</tr>
</tbody>
</table>

### Integrated Math I (H0500 09-10 FY credits: 1)

This course is the first in the Integrated Algebra/Geometry curriculum sequence. Integrated Math I will focus on developing the students’ basic understandings of algebraic and geometric concepts. Algebraic concepts will include solving equations and inequalities, ratios and proportions and graphing linear equations. Geometric topics will include finding the area and perimeter of polygons, volume and surface area of solids, as well as, points, lines, planes and angle relationships. This course will also include the basics of probability and statistics.

### Pre-Algebra (H0503 09-10 FY credits: 1)

This course is designed for students who have mastered basic skills, but require additional experience with algebraic concepts in preparation for Algebra I. This course will introduce pre-algebra topics and will develop various geometric principles. Topics include variables, factors and exponents, equations, problem solving, formulas, organizing data, statistics, ratio and proportions, integers, polynomials, and geometry.

### CP Algebra IA (H0504 09-12 FY credits: 1)

This course prepares the student to continue studies in mathematics and aids the analytical thought process. The focus will be on solving and applying algebraic equations. The course includes the following topics: review of basic math skills, rational numbers, inequalities, polynomials, factoring, graphing linear equations, solving a system of equations, solving linear and quadratic equations, radical expression, statistics, probability, and percents. This course satisfies the Algebra credit requirement for high school graduation. NCAA Approved.

**Prerequisite:** Pre-Algebra or recommendation from 8th grade teacher

### CP Algebra IB (H0518 09-12 FY credits: 1)

This course will be an informal study of algebraic topics. It is designed to provide the student the opportunity to further develop their understanding of basic algebraic concepts and skills. The focus will be on solving and applying algebraic equations. The course includes the following topics: review of basic math skills, rational numbers, inequalities, polynomials, factoring, graphing linear equations, solving a system of equations, radical expression, statistics, probability, and percents. This course satisfies the Algebra credit requirement for high school graduation.

**Prerequisite:** Pre-Algebra or recommendation from 8th grade teacher

### CP Algebra IIA (H0510 09-12 FY credits: 1)

Algebra II is the formal development and extension of Algebra I. The emphasis of this course is on teaching equation solving and its application in solving word problems. Topics include: vocabulary and operations of algebra, properties of real numbers, inequalities, linear equations and functions, polynomials, factoring, rational expression, irrational and complex numbers, quadratic equations, exponential and logarithmic functions and sequences, series, counting methods, and set theory. Scientific calculators are required. NCAA

38 THE COMPLETE, OFFICIAL PROGRAM OF STUDIES CAN BE FOUND AT HTTP://INFO.LONDONDERRY.ORG
This course stresses both the structure and computations necessary to solve problems in algebra and trigonometry. The pace of the course is demanding and students should have a strong background in algebra and geometry. Topics include: vocabulary and operations of Algebra I, linear functions and relations, inequalities, determinants, conic sections, rational expressions, factoring, sequences and series, radicals and irrational numbers, complex numbers, polynomial functions, quadratic equations and systems, exponents and logarithms, trigonometric functions, identities, and right triangle trigonometry. Graphing calculators are recommended. NCAA Approved.

Prerequisite: Recommendation of 8th Grade Teacher
This course satisfies the Algebra credit requirement for high school graduation.

**Integrated Math II**

This course is the second in the Integrated Algebra/Geometry curriculum sequence. This course reinforces the algebra and geometry skills learned in Integrated Math I as well as introducing new algebra and geometry concepts. Topics include functions, solving multi-step equations & inequalities, congruence & angles, triangles & triangle congruence, parallel lines, graphing linear equations, systems of equations, quadrilaterals, polygons, Pythagorean Theorem, Distance Formula, Midpoint Formula, exponents, polynomials, factoring, solving polynomial equations, circles, and trigonometry.

Prerequisite: Integrated Math I

**CP Algebra IIB**

This course develops and extends concepts learned in Algebra I with emphasis on teaching equations and their application to real world problems. The course will start with an extensive review of Algebra I topics. Topics will include vocabulary and operations of Algebra I, properties of real numbers, linear open sentences, functions and polynomials, factoring polynomials, rational expressions, radicals and irrational numbers, quadratic equations and functions, quadratic relations and systems, and exponential functions.

Prerequisite: College Prep Algebra I A or B
This course satisfies the Algebra credit requirement for high school graduation.

**CP Geometry A**

This course stresses the development of the student’s ability to solve problems using a systematic and structured process in Euclidian geometry. Emphasis will be on applying the theorems, corollaries, definitions, and postulates in applications. Topics include defined and undefined terms, angles, perpendicular lines, parallel lines and planes, congruent triangles, similar polygons, right triangle trigonometry, circles, area and volume, quadrilaterals, coordinate geometry and transformations. NCAA Approved.

Prerequisite: College Prep Algebra II A or B

**CP Geometry B**

This course will be an informal development of Euclidian geometry. The emphasis will be placed on the practical applications of geometric definitions, postulates, theorems and corollaries. Topics will include the organization of geometry, undefined terms, angles, perpendicular lines, congruent triangles, triangles and inequalities, parallel lines, quadrilaterals, similarity, right triangles, polygons, space figures, circles, coordinate geometry, transformations, and right triangle trigonometry if time allows.

Prerequisite: College Prep Algebra II A or B

**Honors Algebra II/Trigonometry**

This course will focus on expanding the students’ knowledge of algebra obtained in Integrated Math I and Integrated Math II. The course includes the following topics: review of basic math skills, rational numbers, inequalities, polynomials, factoring, graphing linear equations, solving a system of equations, solving linear and quadratic equations, radical expressions, and percents. This course satisfies the Algebra credit requirement for high school graduation.

Prerequisite: Integrated Math II

**Honors Geometry**

This course will be a formal deductive development of Euclidian geometry using definitions, postulates, theorems, and corollaries, based on the relationships of points, lines, and planes in a two and three dimensional space. There will be extensive work in deriving and proving theorems and corollaries and their applications. Topics include defined and undefined terms, inductive and deductive reasoning, angles, perpendicular lines, parallel lines and planes, congruent triangles, quadrilaterals, similar polygons, right triangles, circles, area and volume, set theory, coordinate geometry, and transformations. NCAA Approved.

Prerequisite: College Prep Algebra II A

**Algebra Concepts**

This course will be an informal development of Euclidian geometry using definitions, postulates, theorems, and corollaries, based on the relationships of points, lines, and planes in a two and three dimensional space. There will be extensive work in deriving and proving theorems and corollaries and their applications. Topics include defined and undefined terms, inductive and deductive reasoning, angles, perpendicular lines, parallel lines and planes, congruent triangles, quadrilaterals, similar polygons, right triangles, circles, area and volume, set theory, coordinate geometry, and transformations. NCAA Approved.

Prerequisite: College Prep Algebra II A

**AP Calculus AB**

This course is designed to be equivalent to a college course in single variable Calculus. It involves 3 major topics: functions, graphs and limits; derivatives; and integrals.

A multi-representational approach is emphasized, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are stressed as well. Graphing calculators will be used extensively. NCAA Approved.

Prerequisite: Honors Pre-Calculus
Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May.

**AP Statistics**

The purpose of AP Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This will be accomplished through the following major units of study: I. Exploring Data: Describing patterns through graphical analysis. II. Sampling and Experimentation: Planning and designing a study or an experiment. III. Anticipating Patterns: Exploring random phenomena with probability and simulation. IV. Statistical Inference: Estimating population parameters and testing hypotheses. Graphing calculators will be used extensively. NCAA Approved.
Prerequisite: College Prep Geometry A or Honors Geometry
Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May.

THIS COURSE IS OFFERED CONCURRENTLY FOR COLLEGE AND HIGH SCHOOL CREDIT THROUGH SNHU AND LONDONDERRY HIGH SCHOOL.

CP Calculus
H0520 11-12 FY credits: 1
This course is designed to be equivalent to a college-level course in single variable Calculus. Topics will include an integrated Precalculus review (functions, limits, and continuity), derivatives, and integrals. Graphing calculators will be used extensively. NCAA Approved.
Prerequisite: College Prep Pre-Calculus or Honors Pre-Calculus
This course is a Project Running Start course.

CP Pre-Calculus
H0512 11-12 FY credits: 1
Students choosing this course should enjoy mathematical challenges and have a solid background in both Algebra II and Geometry. The course presents and develops topics usually included in an introductory trigonometry and analysis course. Topics include characteristics and transformations of functions, graphing polynomial functions of higher degree, exponential and logarithmic functions, angles, trigonometric functions and equations, graphing trigonometric functions, trigonometric identities, linear programming, matrices and determinants, and limits. Graphing calculators are strongly recommended. NCAA Approved.
Prerequisite: College Prep Algebra II A or Honors Algebra II / Trig

CP Probability & Statistics
H0514 11-12 S1/S2 credits: .5
This course introduces the student to probability and statistics. Topics include measures of center and variability, probability, permutations and combinations, normal distributions, samples, confidence intervals for means, proportions, linear regression and correlation, and binomial distributions. Students will learn how to use these concepts in related fields. NCAA Approved.
Prerequisite: College Prep Algebra II A or B and Geometry A or B

Honors Pre-Calculus
H0515 11-12 FY credits: 1
This course is the study of advanced mathematical topics needed as preparation for AP Calculus as well as Calculus II. Students need solid background in Geometry, Algebra II, and Trigonometry. Graphing calculators are used when appropriate. Topics covered include, but not limited to, linear and quadratic functions, polynomial functions, polynomial equations and inequalities, functions and their graphs, operations on functions, exponential and logarithmic functions and applications, analytic geometry, trigonometric functions and applications, trigonometric formulas, trigonometric equations, polar coordinates and polar form of complex numbers, vectors, determinants and applications, matrices and applications, sequences and series, limits and continuity of functions, counting principles, and Binomial Theorem and curve fitting (time permitting). NCAA Approved.
Prerequisite: Honors Algebra II / Trig

CP Finite Mathematics Topics
H0513 12 S1/S2 credits: .5
This course will deal with various advanced mathematics topics. Topics will include linear equations, matrices, linear programming, graphing and simplex method, finance, sets and counting, and logic. Graphing calculators are used when appropriate. NCAA Approved.
Prerequisite: College Prep Algebra II A or B and Geometry A or B

CP Trigonometry
H0519 12 S1/S2 credits: .5
This course is an informal study of basic trigonometry. Topics include: reference and coterminal angles in degrees and radians, all six trigonometric functions with right triangles, Law of Sines and Cosines, graphing trigonometric functions, proving identities and solving trigonometric equations. Scientific calculators are required. NCAA Approved.
Prerequisite: College Prep Algebra II A or B and CP Geometry A or B

Fundamentals of College Algebra
H0522 12 FY credits: 1
The focus of this course is to further develop and apply the students' algebraic skills. Topics include, but are not limited to, performing operations of real numbers and polynomials, solving and graphing linear equations and inequalities, factoring and solving polynomial equations, writing and solving systems of equations, manipulating formulas and solving application problems. NCAA Approved.
Prerequisite: Algebra Concepts or College Prep Algebra II B.
This course satisfies the Algebra credit requirement for high school graduation.
## Music

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concert Choir</td>
<td>H0105</td>
<td>FY</td>
<td>09-12</td>
<td>Audition and/or approval of the instructor</td>
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<tr>
<td>Jazz Intro Lab</td>
<td>H0101</td>
<td>FY</td>
<td>09-12</td>
<td>Audition by the instructor</td>
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<tr>
<td>Marching and Concert Band</td>
<td>H0100</td>
<td>FY</td>
<td>09-12</td>
<td>Audition and/or permission of instructor; full eligibility (academic and otherwise)</td>
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<tr>
<td>Orchestra</td>
<td>H0103</td>
<td>FY</td>
<td>09-12</td>
<td>Approval of the instructor; minimum string background</td>
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<tr>
<td>Piano Fundamentals</td>
<td>H0110</td>
<td>S1/S2</td>
<td>09-12</td>
<td>Concert Choir or Music Director</td>
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<tr>
<td>Chamber Choir</td>
<td>H0106</td>
<td>FY</td>
<td>10-12</td>
<td>Approval of the instructor; Marching and Concert Band and/or approval of the instructor</td>
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<tr>
<td>CP Music Theory</td>
<td>H0108</td>
<td>FY</td>
<td>10-12</td>
<td>Approval of the instructor</td>
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<tr>
<td>Jazz Ensemble</td>
<td>H0102</td>
<td>FY</td>
<td>10-12</td>
<td>Marching and Concert Band and/or approval of the instructor</td>
</tr>
<tr>
<td>Symphonic &amp; Marching Band</td>
<td>H0107</td>
<td>FY</td>
<td>10-12</td>
<td>Audition and/or permission of instructor; full eligibility (academic and otherwise)</td>
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</table>

**Concert Choir**

H0105 09-12 FY  credits: 1

This program is open to all students who can sing and perform with a reasonable level of proficiency. Traditional choral works, including classical, semi-classical, gospel, folk, jazz and pop, are studied, rehearsed and performed. The course strives to cultivate the fundamental principles of singing through the study of tone production, resonance, breath control, diction, and voice. Special emphasis will be placed on reading music and basic musicianship. Out of school time is required for occasional rehearsals and its traditional performances. In addition to its four major productions annually, the Concert Choir may also participate in festivals and other local performances. Advancement into Chamber Choir is encouraged.

**Prerequisite:** Audition and/or approval of the instructor

**Course may be taken more than once for credit**

**Jazz Intro Lab**

H0101 09-12 FY  credits: 1

This is an instrumental performance program open to all instrumental students. Candidates for this course should be able to play with reasonable competence on one of the following instruments: flute, clarinet, saxophone, trumpet, trombone, rhythm/lead guitar, bass guitar, piano, or drums. In this course, a foundation in the basic elements and structural features of various styles and periods of jazz (swing, funk, and rock) will be developed, including improvisation. Performances for the Jazz Ensemble will be determined on an annual basis.

**Prerequisite:** Audition by the instructor

**Course may be taken more than once for credit**

**Marching and Concert Band**

H0100 09-12 FY  credits: 1

This is a program open to all band instrumentalists who can perform with a reasonable level of proficiency. Works suitable for both concert and marching are rehearsed, studied, and publicly performed. In addition to presenting its traditional concerts, the ensemble performs for school and community events. Students are encouraged to participate in various state and regional events such as NH All-State Festival. Out of school time is required for both rehearsals and performances including football halftime shows. There are also parades and other public performances which take place during the year. Participation in the Marching Band is a course requirement.

**Prerequisite:** Audition by the instructor

**Course may be taken more than once for credit**

**Orchestra**

H0103 09-12 FY  credits: 1

This is a program open to any student who has a background in performing on an orchestral string instrument. Works suitable for symphonic and string ensemble are rehearsed, studied and publicly performed. Students in Orchestra are required to practice individually a minimum of thirty minutes each day. Out of school time is required for occasional rehearsals and its traditional performances. In addition to its four major productions annually, the Orchestra may also participate in festivals and other local performances.

**Prerequisite:** Approval of the instructor; minimum string background

**Course may be taken more than once for credit**

**Piano Fundamentals**

H0110 09-12 S1/S2  credits: .5

This music instruction course is designed for students who have an interest in learning basic piano skills. Notation reading, study of major and minor scales, chords, progressions, and harmonization with melodies will be learned, practiced and performed. Solo, duet and some ensemble works from different periods will also be included. Students should have access to a piano or keyboard outside of school, as daily practice will be expected. This class is especially suited for the beginning pianist.

**Prerequisite:** Approval of the instructor or Music Director

**Course may be taken more than once for credit**

**Chamber Choir**

H0106 10-12 FY  credits: 1

Students interested in this course need to be able to accurately sing an unaccompanied musical line, as well as sight-read melodic and rhythmic passages. The course strives to cultivate perfect balance as it relates to musical blend and to further enhance one’s vocal experience by rehearsing and performing a more difficult level of choral literature both accompanied and a cappella. Students are encouraged to...
participate in various state and regional events such as NH All-State Festival. Out of school time is required for occasional rehearsals and its traditional performances. In addition to its four major productions annually, the Chamber Choir may also participate in festivals and other local performances. 

**Prerequisite:** Concert Choir and/or audition, and approval of the instructor 

Course may be taken more than once for credit

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**CP Music Theory**

**H0108 10-12 FY credits: 1**

This is a program designed to introduce the serious-minded musician to the basic fundamentals of music and the complexities of analyzing musical elements and structures. Participants in this course must be able to read and understand music notation at an intermediate level. Students will learn to identify key signatures, define intervals, build and identify chord structures, take melodic, rhythmic, and harmonic dictation, develop keyboard familiarity, sight-sing musical notation, and develop musical vocabulary. In addition, students will construct major and minor scales, analyze form, and study tonality and modality. Through the study of elementary harmony, students will analyze and compose four-part harmonization of melodies, using primary and secondary chords, and will progress through learning how to compose music of their own. This course is offered concurrently for college and high school credit through SNHU and Londonderry High School. 

**Prerequisite:** Approval of the instructor

Course may be taken more than once for credit

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**Jazz Ensemble**

**H0102 10-12 FY credits: 1**

This is an instrumental performance program open to students by audition only. Candidates for this course should be able to accurately play, as well as sight-read one of the following instruments: saxophone, trumpet, trombone, rhythm/lead guitar, piano, string bass/bass guitar, or drums. In this course the basic elements and structural features of various styles and periods of jazz will be studied, rehearsed and performed. Listening exercises and development of improvisational skills will also be included. Out of school time is required for occasional rehearsals and its traditional performances. In addition to its four major productions annually, the Jazz Ensemble may also participate in festivals and other local performances. 

**Prerequisite:** Marching and Concert Band and/or approval of the instructor. 

Course may be taken more than once for credit.

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**Symphonic & Marching Band**

**H0107 10-12 FY credits: 1**

This is a program open to band instrumentalists who have a desire to play a more collegiate level of concert band and wind ensemble literature. Acceptance is by audition and is based upon performance proficiency as well as ensemble balance and commitment to the program. Works suitable for both symphonic and marching are rehearsed, studied, and publicly performed. In addition to presenting its traditional concerts, the ensemble performs for school and community events. Students are encouraged to participate in various state and regional events such as NH All-State Festival. Out of school time is required for both rehearsals and performances including football halftime shows. There are also parades and other public performances which take place during the year. Participation in the Marching Band is a course requirement. 

**Prerequisite:** Audition and/or permission of instructor; full eligibility (academic and otherwise)
### Physical Education

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
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<tbody>
<tr>
<td>Physical Education I</td>
<td>H0203</td>
<td>S1/S2</td>
<td>09</td>
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<tr>
<td>Wellness</td>
<td>H0201</td>
<td>FY</td>
<td>09</td>
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<tr>
<td>Physical Education II - Required Grade 10</td>
<td>H0202</td>
<td>S1/S2</td>
<td>10</td>
<td>PE I</td>
</tr>
<tr>
<td>Team Sports</td>
<td>H0200</td>
<td>S1/S2</td>
<td>10-12</td>
<td>PE I</td>
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<tr>
<td>Walking For Wellness</td>
<td>H0205</td>
<td>S1/S2</td>
<td>10-12</td>
<td>PE I</td>
</tr>
<tr>
<td>Women's Fitness</td>
<td>H0204</td>
<td>S1/S2</td>
<td>10-12</td>
<td>PE I</td>
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<tr>
<td>Physical Education Activities</td>
<td>H0207</td>
<td>S1/S2</td>
<td>11-12</td>
<td>Health or Wellness, PE I, PE II, and interview with instructor.</td>
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<tr>
<td>Physical Education Interactive</td>
<td>H0206</td>
<td>S1/S2</td>
<td>11-12</td>
<td>PE I, Sophomore PE elective and prior approval of instructor.</td>
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<td>Strength and Conditioning</td>
<td>H0209</td>
<td>S1/S2</td>
<td>11-12</td>
<td>Health or Wellness, PE I, and Sophomore PE Elective</td>
</tr>
</tbody>
</table>

#### Physical Education I

**H0203 09 S1/S2 credits: .5**

This required course consists of instruction in organized game activities. Students will be exposed to a variety of activities to encourage lifelong participation and to promote a physically active lifestyle. Physical Education activities include but are not limited to fitness, team handball, lacrosse, volleyball, badminton, softball, initiative games and individual sports.

#### Wellness

**H0201 09 FY credits: 1**

Freshman Wellness is a one year course combining health and fitness components designed to help students acquire the knowledge, practical skills, and habits needed to enhance personal health and wellness. Students will be given the opportunity to better understand the relationship between exercise, activity, nutrition, and healthy living by developing their own lifelong fitness program. Students will be required to change clothing for the PE activities. The course will fulfill the .5 Health credit and the .5 PE I credit required for graduation.

The course will fulfill the .5 Health credit and the .5 PE I credit required for graduation.

#### Physical Education II - Required Grade 10

**10 S1/S2 credits: .5**

To fulfill the second half of the physical education requirement, a student must choose one of the semester classes offered. Semester courses that fulfill the PE II requirement include: Women's Fitness, Walking for Wellness, Lifetime Activities, and Team Sports

#### Lifetime Activities

**H0202 10-12 S1/S2 credits: .5**

This course is designed for students who want to remain active and who are interested in learning about lifetime activities. Students will gain knowledge of individual and dual activities that may be carried into adulthood for enhancement of life. Activities include, but are not limited to yoga, disc golf, tennis, cardio kickboxing, step aerobics, dance, bowling, speedminton, and pilates.

**Prerequisite: PE I**

#### Team Sports

**H0200 10-12 S1/S2 credits: .5**

Emphasis in this course will be placed upon various rules and skills in team games, such as, basketball, softball, volleyball, flag football, team handball, lacrosse, floor hockey and other team sports. In addition, fitness principles as well as traditional and non-traditional activities will be incorporated throughout the semester.

**Prerequisite: PE I**

#### Walking For Wellness

**H0205 10-12 S1/S2 credits: .5**

This course will include a regular and progressive walking program to improve cardiovascular fitness. The class will give students a way of keeping fit for a lifetime and learning the importance of daily activity in maintaining a healthy lifestyle. Students will be required to participate in a pre- and post- fitness test, set personal goals, and maintain individual exercise logs. The primary means of exercise will be walking. Students should expect to walk outdoors under most weather conditions.

**Prerequisite: PE I**

#### Women's Fitness

**H0204 10-12 S1/S2 credits: .5**

This course is designed to improve an individual's general level of fitness. Each major area of fitness will be addressed through various activities to include strength training, flexibility, running, and aerobic exercise. A fitness assessment will be conducted for personal goal setting at the beginning of the semester. At the end of the semester, a fitness assessment will be given to determine if and what goals were met.

**Prerequisite: PE I**

#### Physical Education Activities

**H0207 11-12 S1/S2 credits: .5**

Students in this course will participate in a variety of leisure time activities. Emphasis will be on activity rather than on specific skill development. Activities will include archery, jogging, basketball, volleyball, soccer/football, team handball, floor hockey, softball, wrestling, gymnastics, winter venture, physical fitness/weight training, table tennis/badminton, handball, tennis, low organized games, crab soccer, pushball, and aerobics.

**Prerequisite: Health or Wellness, PE I, PE II, and interview with instructor.**

Course may not be taken more than once for credit.
Physical Education Interactive

**H0206  11-12  S1/S2  credits:  .5**

This course is designed for students who are interested in sharing their knowledge with students who need one-on-one assistance to succeed. The course will allow the student the opportunity to work with special need students to help them participate in a range of physical education activities. The course is an excellent choice for students considering careers in education or in working with the special needs population.

**Prerequisite:** PE I, Sophomore PE elective and prior approval of instructor.

Students that want to become a helper in the class must first interview with the teacher prior to becoming a member of the class.

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Strength and Conditioning

**H0209  11-12  S1/S2  credits:  .5**

This course aims to provide students with an opportunity to complete detailed strength and conditioning programs specifically focused upon personal and athletic goals. The course material delivered encompasses components of fitness, athlete development and personal fitness goal achievement. The course will allow student athletes to complete sport specific workouts, pre, post and in season workouts with emphasis on athletic development and injury prevention for optimal performance. Students not participating in athletic teams are able to complete workouts emphasizing general fitness and overall wellbeing. Pre and post semester strength testing is conducted to allow students to evaluate their physical progression. The course is conducted in the gym and requires students to follow stringent technique and health and safety guidelines. Students will be required to keep a strength journal and design a personal fitness plan.

**Prerequisite:** Health or Wellness, PE1, and Sophomore PE Elective

This course can be taken twice for credit.
Literacy for College and Careers  

H1606  09-10  S1/S2  credits: .5

Literacy for College and Careers is designed to help students develop a lifelong love of reading. The books read in this course contain current themes and issues that are interesting and relevant to young adults today. Students in Literacy for College and Careers will receive direct instruction in research based reading strategies. Students will also learn how to strengthen their vocabulary knowledge by applying, analyzing, and working on mastering contextual vocabulary and word study strategies in preparation for standardized tests such as the SAT, as well as in preparation for post-secondary education.
<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
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<tbody>
<tr>
<td>CP Freshman Science</td>
<td>H0700</td>
<td>FY</td>
<td>09</td>
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<tr>
<td>CP Biology A</td>
<td>H0702</td>
<td>FY</td>
<td>10</td>
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<td>CP Biology B</td>
<td>H0701</td>
<td>FY</td>
<td>10</td>
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<tr>
<td>CP Biology Through Biotechnology</td>
<td>H0719</td>
<td>FY</td>
<td>10</td>
<td>CP Freshman Science</td>
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<tr>
<td>Honors Biology</td>
<td>H0703</td>
<td>FY</td>
<td>10</td>
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<tr>
<td>CP Forensic Science</td>
<td>H0717</td>
<td>S1/S2</td>
<td>10-12</td>
<td>CP Freshman Science</td>
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<td>AP Environmental Science</td>
<td>H0712</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Biology A, College Prep Chemistry A, College Prep Algebra I A</td>
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<tr>
<td>CP Anatomy &amp; Physiology B</td>
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<td>CP Biology A or B or Honors Biology</td>
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<td>CP Biotechnology: Science in the New Millennium</td>
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<td>FY</td>
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<td>CP Chemistry A</td>
<td>H0705</td>
<td>FY</td>
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<td>College Prep Algebra I A or B</td>
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<tr>
<td>CP Chemistry B</td>
<td>H0704</td>
<td>FY</td>
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<tr>
<td>Honors Chemistry: Special Materials (SPAM)</td>
<td>H0706</td>
<td>FY</td>
<td>11-12</td>
<td>Honors or College Prep A Algebra II (concurrent or previously taken) and College Prep Biology A or Honors Biology</td>
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<td>Physical Science Concepts</td>
<td>H0713</td>
<td>FY</td>
<td>11-12</td>
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<tr>
<td>Science Interactive</td>
<td>H1231</td>
<td>FY</td>
<td>11-12</td>
<td>College Prep Freshman Science, College Prep Biology A or B, and prior approval of instructor</td>
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<tr>
<td>CP Anatomy &amp; Physiology A</td>
<td>H0711</td>
<td>FY</td>
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<td>College Prep Biology A or B, or Honors Biology</td>
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<tr>
<td>CP Physics A</td>
<td>H0708</td>
<td>FY</td>
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<td>College Prep Algebra II A (Concurrent or previously taken)</td>
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<tr>
<td>CP Physics B</td>
<td>H0707</td>
<td>FY</td>
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<td>College Prep Algebra I A or B</td>
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<tr>
<td>Honors Advanced Topics in Chemistry</td>
<td>H0710</td>
<td>FY</td>
<td>12</td>
<td>College Prep Chemistry A or Honors Chemistry (SPAM)</td>
</tr>
<tr>
<td>Honors Physics</td>
<td>H0709</td>
<td>FY</td>
<td>12</td>
<td>College Prep Algebra II A or Honors Algebra II/Trig and College Prep Chemistry A (may be taking College Prep Chemistry concurrently)</td>
</tr>
</tbody>
</table>

**CP Freshman Science**  
H0700 09 FY  credits: 1  
This technology rich course will involve a detailed study in the life and physical science areas. Computer access provides current data and trends used in the study of physical, environmental, and earth science. The use of scientific methods is incorporated within each subject area, allowing students to participate as scientists in the collection, analysis, and practical application of data for personal and public awareness. Hands-on activities and demonstrations are used to support main concepts relevant to each area of study. Each content area is related to the students’ personal lives and encourages the development of scientific ethics needed for active, responsible citizenship.  
This fulfills the Physical Science requirement

**CP Biology A**  
H0702 10 FY  credits: 1  
This course is designed to give students an understanding of the scientific processes of biology and the nature of life. It is designed for students who anticipate continuing their education after high school. Course content includes the study of living organisms at the molecular and cellular levels including biochemistry, homeostasis, photosynthesis, respiration, biological evolution, genetics, DNA and protein production. Attention is given to the understanding of scientific principles through experimentation. NCAA Approved.

**CP Biology B**  
H0701 10 FY  credits: 1  
This course is designed to develop basic biological skills while examining the fundamental characteristics of living organisms. Extensive hands-on laboratory and group activities help develop learning skills. Topics investigated include the study of living organisms at the molecular and cellular levels, including biochemistry, homeostasis, photosynthesis, respiration, biological evolution, genetics, DNA and protein production, microbes and immunity.

**CP Biology Through Biotechnology**  
H0719 10 FY  credits: 1  
Biology Through Biotechnology is a tenth grade laboratory course designed to provide students with an intensive investigative approach to biological concepts. Through various hands-on activities (including extensive laboratory experiments) students will study a multitude of topics including, but not limited to, molecular biology, cellular biology, microbiology, genetics, immunology, evolution and ethical issues. These topics will be explored within the context of biotechnology, communicable disease and ecology. Through the use of research investigations, students will begin to develop laboratory skills and techniques that are valued in modern scientific communities.  
***College Preparatory A level course***  
***4 credit Southern New Hampshire University biology course***  
Prerequisite: CP Freshman Science  
*Fulfills state requirements for biology

THIS COURSE IS OFFERED CONCURRENTLY FOR COLLEGE AND HIGH SCHOOL CREDIT THROUGH SNHU AND LONDONDERRY HIGH SCHOOL.
Honors Biology

This laboratory course is designed to provide students with opportunities to investigate the concept of living organisms through varied and involved learning processes. Students will be exposed to current trends in biology by actively participating in the development of experiments, projects, and small group activities. Students will research and analyze biological concepts that will provide connections between such themes as investigational inquiry, history, structure and function, diversity, regulation, homeostasis and their applications to everyday life. The art of science technical writing will be stressed. NCAA Approved.

Prerequisite: CP Biology A or B or Honors Biology

CP Forensic Science

This one semester course is designed for students who are interested in broadening their experiences in a science lab. Forensic science is recommended for students interested in pursuing a career in forensics, law enforcement, criminology, law studies or the medical field. This course will familiarize students with the basic principles and uses of forensic science. Forensic science is the study and application of science to the analysis of evidence collected during criminal investigations. Students will learn methods and use modern technology to collect, examine, analyze and interpret the many different types of evidence found at crime scenes. Through hands-on experiments and analysis of data, students will be able to apply what they have learned to solve “real” crimes and case studies.

Prerequisite: CP Freshman Science

AP Environmental Science

The AP Environmental Science course is designed to be equivalent to an introductory college course in environmental science. This course has been developed as a rigorous science course providing the scientific principles, concepts, and the methodologies required to understand the interrelationships of the natural world. Environmental problems, both natural and man-made, are identified and analyzed. The relative risks associated with these problems are evaluated and the alternative solutions for resolving and/or preventing them are examined. NCAA Approved.

Prerequisite: College Prep Biology A, College Prep Chemistry A, College Prep Algebra I A

Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. This course is an excellent option for students who have completed two years of high school laboratory science or are concurrently enrolled (i.e. College Prep Biology and College Prep Chemistry) and have completed at least College Prep Algebra I A.

CP Chemistry A

Chemistry is a course that is organized around important concepts that have wide application in the field of science. These concepts include atomic structure, chemical bonding, periodic trends, chemical equations, the mole, stoichiometry, the gas laws, chemical equilibrium, and oxidation – reduction. The overall goal of this course is for students to understand and explain the fundamental principles of chemistry and to encourage them to apply their knowledge and become independent learners. In order for this goal to be met, problem solving and study skills will be stressed. The content of this course is beneficial to all students particularly those who plan to attend post-secondary schools. It is particularly beneficial for students interested in pursuing careers related to health and medicine, the environment, all sciences and engineering. Since the course is mathematically oriented, a grade of "C" or above in Algebra I is recommended. NCAA Approved.

Prerequisite: College Prep Algebra I A or B

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

CP Chemistry B

This course utilizes the laboratory approach to introduce and develop the understanding of chemistry concepts and principles. Topics include the metric system, matter and chemical/physical properties, atomic structure and periodicity, writing chemical formulas and chemical reactions, acids and bases, gas laws, solutions, and moles and stoichiometry. Some math background is required.

Honors Chemistry: Special Materials (SPAM)

47

THE COMPLETE, OFFICIAL PROGRAM OF STUDIES CAN BE FOUND AT HTTP://INFO.LONDONDERRY.ORG
This is a lab-centered course utilizing the materials of the chemistry program. Emphasis is on the integration of mathematical concepts, chemical bonding, and experimentation as well as on the development of concepts, theories, and principles of modern chemistry. Gradually, the student is introduced to major generalizations including energy and chemical reactions, rates of chemical reactions, equilibrium and chemical reactions, stoichiometry, periodicity of chemical properties and atomic structure. After the generalizations have been developed through experimentation, students are expected to continue using what they have learned in interpreting and understanding more complex ideas. NCAA Approved.

Prerequisite: Honors or College Prep A Algebra II (concurrent or previously taken) and College Prep Biology A or Honors Biology

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

Physical Science Concepts

H0713 11-12 FY credits: 1

This course is designed to provide students with an opportunity to investigate principles related to physical science. Extensive hands-on laboratory and group learning activities will be employed in the investigation of topics including measurement, energy, matter, atomic structure, chemical reactions, nature of forces, motion and wave properties.

Prerequisite: none

Science Interactive

H1231 11-12 FY credits: 1

This course is designed to allow students with an interest in Science to share their enthusiasm with students who need one-on-one assistance. Topics in physics, chemistry, environmental science, biology and health will be covered. Lab activities will be the driving force behind this “hands on” class. Basic lab safety will be taught and enforced. All students will have a voice in topics to explore. Students will be able to revisit previously covered lessons as part of student choice “Free Fridays”. This course is an excellent choice for those students with an interest in teaching and/or working with the special needs population.

Prerequisite: College Prep Freshman Science, College Prep Biology A or B, and prior approval of instructor

CP Anatomy & Physiology A

H0711 12 FY credits: 1

This course is designed for students who are interested in broadening their experiences in biology and recommended for any student interested in pursuing a career in the medical field such as pre-medical, pre-veterinarian, pre-dental, forensics, and nursing. It will cover the structure and function of the human body with its complex systems in depth. The body will be studied from the molecular, cellular, tissue, organ and system levels. Laboratory work will supplement the discussion topics. Projects, papers, the study of preserved specimens and dissections (or its equivalent) will be assigned. Students will be expected to continue work outside the class and after school. Students will have the option of taking this course for honors or college prep level credit. The teacher will present the different level option at the beginning of each semester. NCAA Approved.

Prerequisite: College Prep Biology A or B, or Honors Biology

Students may agree to Honors A & P contract while enrolled in course. This course is a Running Start course.

CP Physics A

H0708 12 FY credits: 1

This course is designed to provide a solid background in physics for students with an interest in attending post-secondary school and for students with an interest in math and science who wish to take a challenging science class. The course includes a substantial amount of laboratory work and other hands-on activities that reinforce important physics concepts. Students will rely heavily on technology in support of experimentation and analysis. Students will learn and be expected to demonstrate skills required for success in college sciences such as: 1) reading and understanding the text and science related articles, 2) synthesizing information learned in this course as well as previous science and math courses, 3) problem solving, and 4) relating physics concepts to life experiences. Topics include measurements, kinematics and dynamics, conservation laws, wave properties, sound and light, electrostatics, electric current, and magnetism. NCAA Approved.

Prerequisite: College Prep Algebra II A (Concurrent or previously taken).

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

CP Physics B

H0707 12 FY credits: 1

This tech-rich course is a dynamic and hands-on investigation into the fundamental principles of physics through the use of laboratory experiments and engineering design projects. The major topics covered include measurements, motion, vectors, forces, power, work, energy, momentum, wave motion, light, sound, optics, and electrostatics. Basic mathematical operations are fundamental to the nature of the course.

Prerequisite: College Prep Algebra I A or B

Honors Advanced Topics in Chemistry

H0710 12 FY credits: 1

This course is designed to explore the breadth of chemistry. Course content will focus on college level concepts introduced in the previous year of chemistry for the first semester, and for second semester the student will explore organic chemistry.

First semester topics include stoichiometry, redox reactions, Keq and acid-base reactions and introduction to organic nomenclature and IR Spectroscopy. Exploration through labs is emphasized in first semester.

Second semester will focus on the structure-function theories of Organic Chemistry. Topics include IR spectroscopy, organic nomenclature, Pushing Electrons, pKa, reaction mechanisms, organic reactions of Alkenes and Alkynes, and Electrophilic Aromatic Substitution in organic chemistry. This course is highly recommended for pre-med, pre-vet, pre-dental, pharmaceutical, chemical engineering, forensics, bio-technology, physician assistant programs as well as for all science majors. NCAA Approved.

Prerequisite: College Prep Chemistry A or Honors Chemistry (SPAM)
Honors Physics

H0709 12 FY credits: 1

This course is an in-depth study of physics for the science-oriented student. Core topics include measurement, error, special relativity, kinematics, dynamics, the conservation laws, wave properties, sound, electrostatics, current electricity, and the properties of light. The course will include a substantial laboratory component which will require data collection, analysis, and presentation; relying heavily on the use of technology. Students will be expected to have good math skills. Although calculus is not required for success in this class, it will be presented as an alternative to algebra-based problem solving methods. Students will be expected to understand the derivations of the mathematical relationships that describe physical phenomena, consider opposing scientific points of view, and reconcile experimental results with theory. Readings will include a college-level text and outside readings from primary sources. This course is recommended for students who intend to apply to competitive schools, and for those interested in careers in science or engineering related careers. NCAA Approved.

Prerequisite: College Prep Algebra II A or Honors Algebra II/Trig and College Prep Chemistry A (may be taking College Prep Chemistry concurrently)

This course is a Running Start course.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.
Social Studies

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
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<tbody>
<tr>
<td>CP Freshman Humanities</td>
<td>H0325</td>
<td>FY</td>
<td>09</td>
<td>Recommendation of current instructor</td>
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<tr>
<td>CP World History</td>
<td>H0400</td>
<td>FY</td>
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<tr>
<td>World Studies</td>
<td>H0415</td>
<td>FY</td>
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<td>CP Sophomore Humanities</td>
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<td>S1/S2</td>
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<td>Recommendation of current Social Studies and Mathematics teachers. Fulfills Economics requirement.</td>
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<td>CP Civics</td>
<td>H0409</td>
<td>FY</td>
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<td>CP Economics</td>
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<td>S1/S2</td>
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<td>H0412</td>
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<td>FY</td>
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<td>CP World at War</td>
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<td>H0418</td>
<td>S1/S2</td>
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**CP Freshman Humanities (H0325 09 FY credits: 2)**

This course, which fulfills the Freshman English and Social Studies requirements, is designed to provide a comprehensive historical and literary survey of the development of civilization through World War II. Through various forms of literature and resources, students will examine important movements, ideas, and events in world history. The course will include a rigorous reading requirement as well as provide intensive writing instruction. Classes will incorporate discussions, projects, and media center research. NCAA Approved.

**Prerequisite:** Administrative Placement Only

Double period class. Earns 1 credit in Social Studies and 1 credit in English.

**CP Sophomore Humanities (H0326 10 FY credits: 2)**

This course, which fulfills the sophomore English and Social Studies requirements, will provide a comprehensive historical and literary review of American History from 1877 through the early 1990s. Through various forms of literature and resources, students will examine important movements, ideas, and events in American History. The course will include a rigorous reading requirement as well as provide intensive writing instruction, class discussions, projects and media center research. NCAA Approved.

**Prerequisite:** Administrative Placement Only

Double period class. Earns 1 credit in Social Studies and 1 credit in English.

**CP US History (H0401 10 FY credits: 1)**

This is a survey course focusing on American History from 1877 through the present. Emphasis will be placed on the political, social, and economic events that have affected our country. Learning will take place through discussions, projects, analysis of primary and secondary sources, writing, text
reading, writing, and research skills. NCAA Approved.

Honors Macroeconomics  
This course will provide students with an in-depth coverage of Macroeconomics. The class starts with a brief overview of economic concepts, then diverges into coverage of the financial sector, inflation and other economic indicators, government stabilization policy, economic growth and productivity, and international trade and finance. This advanced course requires that students interpret graphs and charts, as well as perform advanced computations. This course is designed to be fast paced, uses a college level text, and includes a mathematics component. Students are eligible to take the Advanced Placement test upon completion of this course.

Prerequisite: Recommendation of current Social Studies and Mathematics teachers. Fulfills Economics requirement.

This course is a Running Start course.

CP Civics  
This course describes the organization and operation of government on the local, state, and national levels. Students will be exposed to the major ideas, protections, privileges, structures, and economic systems that affect the life of a citizen in the US political system. Students will also be able to identify some of the challenges in US foreign policy and other issues facing Americans as well as understand their rights and responsibilities as citizens in America today. NCAA Approved.

CP Economics  
This course is designed to introduce students to both Macro- and Micro-Economics. The course examines the different economic systems that exist in today's world, with special emphasis placed on the mixed economy of the United States. Further topics of study include the principles of supply and demand, business ownership and market structure, employment, money and banking, fiscal policy and monetary policy, and the United States' role in the greater world economy. This course is designed to provide students with a background in economic principles. NCAA Approved.

AP European History  
This course is a study of European history from 1350 to the present. This course will stress the Renaissance and Reformation, the Enlightenment, the age of discovery, the Napoleonic era, the unification period, imperialism, the world wars and interwar years, as well as the Cold War and present trends towards European integration. Throughout the course, emphasis will be placed on the geography of Europe and the interrelationships of its people. European cultures, social and political movements, and economic trends will be investigated as they develop and adapt into their modern forms. The course is designed to provide a fast-paced intensive experience in reading, writing, and research skills. NCAA Approved.

Prerequisite: Recommendation of current instructor

Required summer reading will be assigned. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May.

AP Psychology  
The purpose of AP Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each major subfield with psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students will produce original work based on their own research. Class participation is vital for this discussion based course. Students will have frequent short quizzes, several projects, and take rigorous tests. Students successfully completing this course will be prepared to take the College Board's Advanced Placement Psychology Exam.

AP US Government & Politics  
This course is designed to give students an analytical perspective on government and politics in the United States. It will include both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. Topics that may be included are constitutional underpinnings of the United States government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, civil rights and civil liberties. Although there is no prerequisite for this course, students should familiarize themselves with the various institutions, groups, beliefs and ideas that constitute U.S. politics.

Prerequisite: Recommendation of current instructor

Required summer reading will be assigned. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May. This course fulfills the civics requirement.

AP US History  
This course is a study of American history from the period of early colonization to the present. This course offers a fast-paced intensive coverage of the social, political, military and economic events and trends of American history. The program prepares students for intermediate and advanced college courses by making the same types of assignments as those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented therein. Stress will be placed on student responsibility for work outside the class. NCAA Approved.

Prerequisite: Recommendation of current instructor

Required summer reading will be assigned. Students in this course are strongly encouraged to participate in the Advanced Placement examination administered by the College Board in May.

CP Current Issues  
This course will provide a background for the interpretation and evaluation of the complex issues which confront our society today. In a time when "change" is the password of our country and the world, students will examine and form knowledgeable opinions on such diverse issues as international affairs, politics, education, poverty, racial discrimination, and other contemporary topics. NCAA Approved.
This course is designed to study the social and biological explanations for human behavior. Areas of study covered include the biological basis of behavior, states of consciousness, sensation and perception, lifespan development, stress and health (incorporates the topic of death and dying), learning and memory, personality, and psychological disorders. The course will be based on class discussions, various selected readings, media center research, projects, and essays. NCAA Approved.

**CP Law and Mock Trial**

This year long course covers the Law Studies curriculum and allows students to participate in several mock trials and hearings. Students will develop an appreciation of the American justice system, an understanding of the role of law in a democratic society, reasoning, analytical and oral advocacy skills through the application of civility, and an understanding of responsible citizenship. Students will learn courtroom procedures and the role and responsibilities of judges, attorneys, jurors, witnesses and court personnel. Students will be expected to fulfill out of class time commitments as well. NCAA Approved.

**Prerequisite:** Recommendation of current instructor

**CP Law Studies**

This course is designed to give the student some practical knowledge of the principles of civil and criminal law. The text used is Street Law and emphasis will be placed on an understanding of the US Supreme Court and cases as they apply to students. Some of the major topics will include the US Supreme Court, legal problems of today, rights and obligations of adults and juveniles, the juvenile justice system, social laws, students’ rights, and law related careers. Activities may include reading, current applications of laws, research, and guest speakers from many aspects of the field of Law and possible field trips. NCAA Approved.

This course DOES NOT provide preparation for the 2nd semester “Mock Trial” course.

**CP Philosophy**

How can we achieve the most happiness in life? What is human consciousness? Does evil exist? Are there absolute truths? Will observing certain ethical codes lead to enlightenment/heaven? Philosophers have contemplated these questions since the dawn of civilization. This course begins by examining the Athenian philosophers: Socrates, Plato and Aristotle. It then explores how world religions have grappled with these questions. Philosophers from the modern era, including Descartes, Rousseau, Kierkegaard, Nietzsche, Jung and Freud will also be discussed. If you’ve found yourself wondering about “life’s big questions” – then this course is for you. We also do yoga. NCAA Approved.

**CP Political Science**

This course is designed to give students a basic introduction to political theory and government types and structures throughout the world. Both historical background and modern day governmental issues will be discussed. The study of these issues will familiarize students with ways in which people in various cultures govern and are governed. In addition, the interaction of present day nation states will be explored through an in-class study of the United Nations, its role and purposes, the member countries of the Security Council, and a final class activity of a Mock Security Council. Issues of war, peace, famine, ethics and morality, and globalism will be explored. NCAA Approved.

**CP Psychology**

This course is designed to study the social and biological explanations for human behavior. Areas of study covered include the biological basis of behavior, states of
## Special Education

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Core</td>
<td>H1257</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting/</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Alternative diploma track</td>
</tr>
<tr>
<td>Current Events</td>
<td>H1252</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement</td>
</tr>
<tr>
<td>Decoding &amp; Read Comprehension</td>
<td>H1216</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>English 9</td>
<td>H1206</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Individualized Reading</td>
<td>H1218</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
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<tr>
<td>Math 12</td>
<td>H1203</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Math 9</td>
<td>H1200</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
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<td>Project Work</td>
<td>H1261</td>
<td>S1 or S2</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Science 9</td>
<td>H1244</td>
<td>FY</td>
<td>09-12</td>
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</tr>
<tr>
<td>World History 9</td>
<td>H1204</td>
<td>FY</td>
<td>09-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Biology 10</td>
<td>H1210</td>
<td>FY</td>
<td>10-12</td>
<td>Special Education Team Placement Meeting</td>
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<tr>
<td>English 10</td>
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<td>FY</td>
<td>10-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Math 10</td>
<td>H1201</td>
<td>FY</td>
<td>10-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>US History 10</td>
<td>H1205</td>
<td>FY</td>
<td>10-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Civics Responsibility</td>
<td>H1221</td>
<td>S1 or S2</td>
<td>11-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>Consumer Economics</td>
<td>H1220</td>
<td>S1 or S2</td>
<td>11-12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
<tr>
<td>English 11</td>
<td>H1208</td>
<td>FY</td>
<td>11-12</td>
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</tr>
<tr>
<td>Math 11</td>
<td>H1202</td>
<td>FY</td>
<td>11-12</td>
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<td>H1209</td>
<td>FY</td>
<td>12</td>
<td>Special Education Team Placement Meeting</td>
</tr>
</tbody>
</table>

### Academic Core

**H1257 09-12 FY credits: 3**

The Academic Core’s focus is to teach the functional applications of academic skills and provide various learning opportunities to practice these skills. The three period block provides flexible time spans for the completion of projects and hands-on learning. Communication and social skills as well as academic areas including Math, English, and Reading are integrated throughout the block. Functional skills taught in the classroom will be real life with hands-on application of skills practiced outside the classroom and in the community.

**Prerequisite:** Special Education Team Placement Meeting/Alternative diploma track

### Current Events

**H1252 09-12 FY credits: 1**

### Decoding & Read Comprehension

**H1216 09-12 FY credits: 1**

This elective course is designed for those students who need continued development of their reading skills, with emphasis on decoding and reading comprehension. Course content includes different approaches to decoding and methods to help students comprehend what they read. Individualized instruction, novels, short stories, articles and individual student work are used to strengthen basic reading skills. Vocabulary development is also stressed in this course. This course is appropriate for students whose reading ability is significantly below grade level.

**Prerequisite:** Special Education Team Placement Meeting

Course may be repeated with recommendation/approval of Guidance Director and Special Education Director.

### English 9

**H1206 09-12 FY credits: 1**

This course is designed for freshmen who have difficulty with some area of communication skills. The purpose of this course is to increase students’ knowledge of grammar, spelling, vocabulary and written expression. Novels, short stories, articles and student work are used to strengthen these skills.

**Prerequisite:** Special Education Team Placement Meeting

### Individualized Reading

**H1218 09-12 FY credits: 1**

This elective course is designed to improve the wide scope of reading-related skills on the high school level. At the beginning of the school year, students are tested and their reading needs are determined. The curriculum is tailored to develop individual skills in the following areas: word recognition, word structure, vocabulary building, fluency, comprehension, reasoning ability, and study skills. Academic curriculum is based on Project Read, Orton-Gillingham and Wilson methodologies.

**Prerequisite:** Special Education Team Placement meeting

Course may be repeated with recommendation/approval of Director of School Counseling and Special Education Director.

### Math 12

**H1203 09-12 FY credits: 1**

Students are provided with the skills to solve a variety of problems that demonstrate how mathematics is used in everyday life and in the business world. Topics include mathematics in: housing, automobile, insurance, taxes, payroll, and banking. These applications reinforce and extend the students' mastery of mathematical concepts.

**Prerequisite:** Special Education Team Placement Meeting

### Math 9

**H1200 09-12 FY credits: 1**

This course focuses on a review and re-teaching of the four basic operations: addition, subtraction, multiplication, and division of positive and negative integers including whole
numbers, fractions, and decimals. Students will learn to read, interpret, write, and solve word problems while incorporating the use of calculators to check their work. The course also offers an introduction to understanding concepts in algebra, including order of operations, factoring, and solving single–two step problems. Probability, proportions, percents, ratios, basic geometry are also introduced in solving algebraic equations. Real world life experiences are used to reinforce all algebraic concepts.

**Prerequisite:** Special Education Team Placement Meeting

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**Project Work**  
H1261 09-12 S1 or S2 credits: .5

This course teaches students skills they will need when going into the work world; understanding and using a time card, following the routine of the job, arriving on time, taking breaks, prioritizing work, quality and quantity, etc. Some students will be introduced to a number of different work situations utilizing different departments/areas of the high school.

**Prerequisite:** Special Education Team Placement Meeting

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**Science 9**  
H1244 09-12 FY credits: 1

This course, taught by a special education teacher, parallels the Freshman Science course. Topics in environmental science, energy, astronomy, chemistry, and physics make up most of the curriculum. The scientific method, metric measurement, Internet research, and computer applications are utilized throughout the year. Hands-on activities, paired laboratory experiments and small group discussions are an integral part of the course. An emphasis will be placed on improving reading and study skills.

**Prerequisite:** Special Education Team Placement Meeting

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**World History 9**  
H1204 09-12 FY credits: 1

This course parallels the freshman World History curriculum, with consideration given to the individual differences in reading and writing abilities. Classroom activities include such activities as journal writing, PowerPoint presentations, debates, and discussions. Topics include Ancient Civilizations, Greece, Rome, the Middle Ages, the Renaissance, the French Revolution, and the World Wars. Classroom activities include such activities as journal writing, PowerPoint presentations, debates, and discussions.

**Prerequisite:** Special Education Team Placement Meeting

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**Biology 10**  
H1210 10-12 FY credits: 1

This course, taught by a special education teacher, parallels the Biology Concepts course. Topics covered include the scientific method, classification of living things, cells, basic human anatomy and physiology, diseases and disorders of the body systems with a focus on maintaining good health. These topics are covered in a hands-on, activity-oriented format with an emphasis on improving reading and study skills.

**Prerequisite:** Special Education Team Placement Meeting

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**English 10**  
H1207 10-12 FY credits: 1

This course is designed for sophomores who need continued skill development with emphasis on reading comprehension, writing, and other communication skills. Novels, short stories, articles and individual student work are used to strengthen these language arts areas.

**Prerequisite:** Special Education Team Placement Meeting

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**Math 10**  
H1201 10-12 FY credits: 1

This course continues with the concepts of rational numbers, positive and negative exponents, problem solving, writing and evaluating written expressions, and working with equations. Students continue to build on earlier skills, working with single–two step word problems and gradually progress to solving multi-step algebraic problems, utilizing various strategies. Students are also introduced to solving and graphing linear equations, defining slope and y intercept, and mixed uniform rate work problems. Basic Geometry, Pythagorean Theorem, defining angles, perimeter, and areas of various geometric shapes will be continued.

**Prerequisite:** Special Education Team Placement Meeting

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**US History 10**  
H1205 10-12 FY credits: 1

This course parallels the sophomore United States History curriculum, with consideration given to individual differences in reading and writing abilities. Classroom activities include such activities as journal writing, PowerPoint presentations, debates, and discussions. Topics include Westward Expansion, The Gilded Age, The United States as a World Power, and the Cold War.

**Prerequisite:** Special Education Team Placement Meeting

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**Civics Responsibility**  
H1221 11-12 S1 or S2 credits: .5

This course is designed to introduce students to the methods and procedures used in our political process. The goal of the program is to provide practical experiences, which will develop the students’ understanding and commitment to active citizenship and will give students the knowledge and skills required for effective community participation. Students will gain practical experience and develop an understanding of the importance of citizen participation. This course will outline the public policy making process and the role of citizens in formulating public policy. An activity based program, the course will provide opportunities to investigate community problems and determine possible solutions. This program will add to students' knowledge, enhance their skills, and deepen their understanding of how we can work together to make our communities better.

**Prerequisite:** Special Education Team Placement Meeting

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**Consumer Economics**  
H1220 11-12 S1 or S2 credits: .5

This course is designed to provide the student with an understanding of basic economics as it applies the individual consumer. Students will explore the concepts of markets and prices, resources and scarcity, income, and interest, demand and supply, investment and credit. Through engaging simulation students will learn how to apply these concepts to consumer decision-making in our economy.

**Prerequisite:** Special Education Team Placement Meeting

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**English 11**  
H1208 11-12 FY credits: 1

This course is intended for juniors who need continued instruction in English skills for everyday living. Class projects, individual work, novels, short stories, and articles are used to improve communication skills. The class is conducted in a technology-enriched classroom where students will access computers and library materials to complete assignments.

**Prerequisite:** Special Education Team Placement Meeting
Math 11

H1202 11-12 FY credits: 1

Students continue to build further knowledge from Math 10, and new algebraic concepts, such as polynomials, inequalities, geometry, and trigonometry are introduced. Hands on applications, utilizing compasses, transits, protractors are emphasized, while solving geometric concepts. Several realistic projects are introduced, allowing students to demonstrate their problem solving and mathematical skills

Prerequisite: Special Education Team Placement Meeting

English 12

H1209 12 FY credits: 1

This course will emphasize reading and comprehension skills and students will learn skills needed to become critical readers and writers. Students will also compile career portfolios that depict skills obtained inside and outside of the classroom. Topics will be introduced through group discussions, lectures, guest speakers, short stories and articles. Students are responsible for planning and implementing a pre-approved class lesson each semester.

Prerequisite: Special Education Team Placement Meeting
Special Programs

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent Study</td>
<td>H2003</td>
<td>S1 or S2</td>
<td>10-12</td>
<td></td>
</tr>
<tr>
<td>School Store Aide</td>
<td>H1505</td>
<td>S1 or S2</td>
<td>10-12</td>
<td></td>
</tr>
<tr>
<td>CP Exploring Art Of Teaching</td>
<td>H1500</td>
<td>S1</td>
<td>11-12</td>
<td></td>
</tr>
<tr>
<td>MST CO-OP</td>
<td>H1400s</td>
<td>S1 or S2</td>
<td>11-12</td>
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<tr>
<td>CP Practicing the Art of Teaching</td>
<td>H1501</td>
<td>S2</td>
<td>12</td>
<td>College Prep Exploring the Art of Teaching</td>
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<tr>
<td>Senior Project</td>
<td>H1334</td>
<td>FY</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Student Internship/Special Program</td>
<td>H1506</td>
<td>FY</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Independent Study  
H2003 10-12 S1 or S2 credits: .5

Students interested in study extending beyond the scope of the curriculum in a creative or academic area may apply. Responsibility for planning, researching, executing, and evaluating each individualized program belongs to the student. Faculty consultants are available to assist students. Appropriate credit will be given at the completion of the project. Application for Independent Study should be completed in the House office.

School Store Aide  
H1505 10-12 S1 or S2 credits: .25

Students currently enrolled in Marketing may apply to work in the school store during their assigned lunch/study period. Grading will be on a pass/fail basis. Application should be made to the teacher involved. Students may earn ½ credit.

CP Exploring Art Of Teaching  
H1500 11-12 S1 credits: .5

In the first Future Educators Academy (FEA) course, students will explore the art of teaching through classroom-based lessons coupled with school-to-career activities. Students will be evaluated on their attainment of skills, knowledge and experience and must achieve a final grade of 2.5 or higher to be recommended for the second FEA course. FEA students will “practice” teach a sample lesson plan and, as part of the self-assessment process, be videotaped. A reflective journal will be kept to document level of progress and resources needed to be a quality teacher.

MST CO-OP  
H1400s 11-12 S1 or S2 credits: .5

Co-op is a career and technical education work experience program. The work must be related to the student’s course of study at MST. Students must apply for Co-op at MST and meet the requirements of the program. Students must provide documentation at the beginning of the semester and submit final grades from MST at the end of the semester. Approval required. Co-ops can be arranged for summer credit with prior approval.

CP Practicing the Art of Teaching  
H1501 12 S2 credits: .5

In the second Future Educators Academy (FEA) course, students will practice the art of teaching. The content aligns with National Board Standards for Professional Teaching and offers contact hours in classroom-based instruction as well as supervised observation. Students will produce an FEA portfolio of documented evidence to include with their application to a Teacher Preparation Program.

Prerequisite: College Prep Exploring the Art of Teaching
This course is a Running Start course.

Senior Project  
H1334 12 FY credits: 1

The Senior Project allows students the opportunity to pursue a topic or idea of their choice with the guidance of a mentor along the way. The Senior Project provides students the ability to embody our mission statement as they truly function as a self-directed learner. This project will offer students a personalized learning experience showcasing talents and skills that the student has developed at Londonderry High School. Students will be able to focus on a passion that they have and/or a question that they are looking to explore and discover the answer to. The Senior Project is a full year 1 credit pass/fail course.

Student Internship/Special Program  
H1506 12 FY credits: .5

This program allows students to experience a semester-long internship. Along with the internship experience, students will need to attend meetings throughout the semester and will need to complete a portfolio capturing their experience. Students interested in applying for an internship must complete an application and interview prior to placement. Applications are available in House 1.

THE COMPLETE, OFFICIAL PROGRAM OF STUDIES CAN BE FOUND AT HTTP://INFO.LONDONDERRY.ORG
## Technology Education

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Number</th>
<th>Semester</th>
<th>Grades</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Video Production</td>
<td>H1016</td>
<td>S1/S2</td>
<td>09-12</td>
<td></td>
</tr>
<tr>
<td>Computer Graphic Design</td>
<td>H1008</td>
<td>S1 or S2</td>
<td>09-12</td>
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<tr>
<td>CP Civil/Architectural Engineering Design</td>
<td>H1013</td>
<td>FY</td>
<td>09-12</td>
<td>College Prep Principles of Engineering, or permission of instructor</td>
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<tr>
<td>CP Introduction to Engineering Design</td>
<td>H1018</td>
<td>FY</td>
<td>09-12</td>
<td>College Prep Algebra I A or B (concurrent or previously taken)</td>
</tr>
<tr>
<td>Exploring Graphic Arts</td>
<td>H1007</td>
<td>S1/S2</td>
<td>09-12</td>
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<td>Exploring Metals</td>
<td>H1004</td>
<td>S1/S2</td>
<td>09-12</td>
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<tr>
<td>Exploring Woodworking Skills</td>
<td>H1000</td>
<td>S1/S2</td>
<td>09-12</td>
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<td>Metals Technology</td>
<td>H1005</td>
<td>S1/S2</td>
<td>09-12</td>
<td>Exploring Metals</td>
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<tr>
<td>Radio Broadcasting &amp; Production</td>
<td>H1020</td>
<td>S2</td>
<td>09-12</td>
<td></td>
</tr>
<tr>
<td>Video Production Lab</td>
<td>H1017</td>
<td>S2</td>
<td>09-12</td>
<td>Basic Video Production and recommendation of instructor</td>
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<tr>
<td>Woodworking For Women</td>
<td>H1033</td>
<td>S1/S2</td>
<td>09-12</td>
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<td>Woodworking Technology</td>
<td>H1001</td>
<td>S1/S2</td>
<td>09-12</td>
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<tr>
<td>Woodworking With Hand Tools</td>
<td>H1002</td>
<td>S1/S2</td>
<td>09-12</td>
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<td>Advanced Metals</td>
<td>H1006</td>
<td>S1/S2</td>
<td>10-12</td>
<td>Metals Technology</td>
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<td>Advanced Woodworking Technology</td>
<td>H1003</td>
<td>FY</td>
<td>10-12</td>
<td>Woodworking Technology or Woodworking for Women.</td>
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<tr>
<td>CP Photography</td>
<td>H1009</td>
<td>S1/S2</td>
<td>10-12</td>
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<tr>
<td>CP Principles of Engineering</td>
<td>H1019</td>
<td>FY</td>
<td>10-12</td>
<td>College Prep Introduction to Engineering Design.</td>
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<tr>
<td>Television Production</td>
<td>H1031</td>
<td>FY</td>
<td>11</td>
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<tr>
<td>Advanced Photography</td>
<td>H1010</td>
<td>S2</td>
<td>11-12</td>
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</tr>
<tr>
<td>CP Digital Electronics</td>
<td>H1026</td>
<td>FY</td>
<td>11-12</td>
<td>Algebra II A or B</td>
</tr>
<tr>
<td>Advanced Television Production</td>
<td>H1032</td>
<td>FY</td>
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<td>Television Production</td>
</tr>
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### Basic Video Production

**H1016 09-12 S1/S2 credits: .5**

This course uses the element of production to foster the ability to clearly and concisely communicate ideas and information in various video formats. Along with these skills, emphasis is placed on cooperative working skills, accountability and quality craftsmanship. Students will learn to use storytelling, interview techniques and video formatting to create visual and audio messages. The history and application of freedom of expression, the history of video production, the technical aspects of television and television news broadcasting will also be explored. Students will be taught single camera techniques, field production and simple editing skills.

### Computer Graphic Design

**H1008 09-12 S1 or S2 credits: .5**

This course places emphasis on the role of computers in the printing industry. Students will experience and manage the process of taking an idea from a raw sketch and transforming it into a press-ready document using the technology of computerized printing as it exists today. Topics include, but are not limited to, page layout, cut and paste, and design, integrating text and graphics, borders, fonts, printing formats, editing techniques, and producing a plate from the mechanical. Related career opportunities will be discussed.

### CP Civil/Architectural Engineering Design

**H1013 09-12 FY credits: 1**

This yearlong course is the fourth course (optional) in the Project Lead the Way high school pre-engineering program. The major focus of the course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation. Utilizing engineering activities, projects, and problems, student will analyze, design and build electronic and physical models of residential and commercial facilities. While implementing these designs, students will continually hone their interpersonal skills, creative abilities and understanding of the design process. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in design and construction industry.

**Prerequisite:** College Prep Principles of Engineering, or permission of instructor

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

### CP Introduction to Engineering Design

**H1018 09-12 FY credits: 1**

This yearlong course is the first in our Project Lead the Way pathway. It is designed to teach problem-solving skills by using a design development process. Students will work from sketching simple geometric shapes to applying a solid modeling computer software package. Emphasis is placed on the development of a three-dimensional solid model. The techniques learned and the equipment used are state of the art and are currently being used by engineers throughout the United States.

**Prerequisite:** College Prep Algebra I A or B (concurrent or previously taken)
This course is a Project Running Start course.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

Exploring Graphic Arts
H1007 09-12 S1/S2 credits: .5
This exploratory course is designed to provide the student with an introduction to the processes, techniques and equipment involved in the printing industry of today. Students will begin to understand how the printing and graphics industry create the images and printed items seen every day in our society. This course is an overview of the printing processes of: Relief, Intaglio, and Lithography, Screen printing, Flexography and Thermography. The student will be involved with learning how to design, create a layout and print the finished product from start to finish. Class instruction and activities utilize student interest and dictate project work. Career opportunities are explored.

Exploring Metals
H1004 09-12 S1/S2 credits: .5
This exploratory course is designed to give the beginning student an opportunity to explore the many areas of the metal working industry. Basic information such as the types and properties of metals, as well as measuring and layout, will be followed by activities including bending, forming, foundry, welding, and sheet metal fabrication. Career opportunities in the metal working industry will be investigated.

Exploring Woodworking Skills
H1000 09-12 S1/S2 credits: .5
This course is designed for all students seeking a basic hands-on experience in Technology Education. Activities and projects will introduce the basic woodworking skills in managing a project activity from beginning to end. Topics will include the safe use and care of common hand and power tools, woodworking from plans, fasteners, assembly and finishing techniques, and wood products. Students will also have the opportunity to experience steam bending, scroll work, and using the wood lathe. This course is highly recommended for the college bound student who desires a practical woodworking experience in one semester.

Metals Technology
H1005 09-12 S1/S2 credits: .5
This course is designed for the student with a sincere interest in the industry of metal manufacturing technologies. Emphasis will be given to skill development in bench working and the use of power and non-power tools. Areas of metal manufacturing such as welding, machining, forging, foundry, and sheet metal fabrication will be covered with a more in-depth approach. Exploration with the use of computer-assisted machine centers will be covered. Industrial practices of safety, design, and product development will be followed. Career opportunities will be investigated.
Prerequisite: Exploring Metals

Radio Broadcasting & Production
H1020 09-12 S2 credits: .5
The focus of this course is to develop the skills needed to create programming suitable for air on WLLO-LP, the Londonderry School District's low-power FM radio station. Students will revise, research, write and edit content for scripts. Audio recording and editing, on-air performance and interviewing techniques will be emphasized. Career options will be discussed and related fields in audio production and engineering will be explored.

This course may be repeated for credit with teacher approval. Advanced students will focus on producing programming for the station with a focus on personal interest.

Video Production Lab
H1017 09-12 S2 credits: .5
This course is designed to use and expand on the skills students have learned in Basic Video Production. Students will learn the use of multiple cameras, professional editing software, special effects, animated graphics, and how to create their own video soundtracks. Various pieces will be produced including a short “Day in the Life” video, an interview, a video essay, and a news story. Students who take this class need to have mastered the skills taught in Basic Video, to be self-motivated, and be able to work independently and in group settings.
Prerequisite: Basic Video Production and recommendation of instructor

Woodworking For Women
H1033 09-12 S1/S2 credits: .5
This one semester course is designed specifically for women. No previous woodworking experience is required. Students will learn woodworking skills and safety techniques necessary to create a variety of projects. Topics will include the safe use and care of common hand and power tools, woodworking from plans, assembly and finishing techniques, and wood products. Students will also have the opportunity to experience decorative treatments.

Woodworking Technology
H1001 09-12 S1/S2 credits: .5
This course is designed for the student with high interest in dealing with the many areas of wood and woodworking technology. The relationship between the principles of woodworking and the basic skills of the industry will be studied. Emphasis is given to the principles of planning, proper use of tools and machines, industrial production, finishing techniques, safety, and career opportunities.
Prerequisite: Suggested (not required) prerequisite: Exploring Woodworking Skills

Woodworking With Hand Tools
H1002 09-12 S1/S2 credits: .5
This course is designed for the student who enjoys creating something entirely by hand. Students will learn how to use, sharpen and maintain different kinds of hand tools as they build a beautiful Windsor stool. Students will be learning techniques and methods used by master craftsmen over 100 years ago to hand make these beautiful stools. Other handmade projects may include such items as shaker oval boxes and hand carved signs. The only prerequisite for this class is a desire to build something challenging out of wood.

Advanced Metals
H1006 10-12 S1/S2 credits: .5
This course is designed for the student who is seriously interested in the metals industry. Each student will be actively involved in an individual in-depth research project resulting in a self-developed activity or product. All students will be involved.
in an industrial production activity developed within the lab. Additional information will include technology of metals and their properties, precision machining and measuring instruments, plus skills and knowledge designed by apprentices, technical schools and colleges. An independent project will be developed, designed, programmed, and manufactured using the computer numerically controlled machining center in the lab.

Prerequisite: Metals Technology

Course may not be taken more than once for credit.

Advanced Woodworking Technology

H1003 10-12 FY credits: 1

This is a full year course that is designed for the student who is seriously interested in investigating opportunities in the woodworking industry. Students will explore the basics of cabinetwork through a series of activities that will result in an advanced level product (or series of products). Areas that will be covered include product design, aspects of cabinetwork and casework, assembly, finishing, lumber specifications, cost estimation, and careers in the woodworking industry.

Prerequisite: Woodworking Technology or Woodworking for Women.

Course may not be taken more than twice for grading and credit.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

CP Photography

H1009 10-12 S1/S2 credits: .5

This course will introduce the student to the historical, practical, and industrial uses of photography. Lenses, developing chemicals, camera construction, film, paper and finishing techniques will be studied. Applications of the scientific aspects as well as hobby interest in photography are explored through related activities.

This is a Project Running Start course.

CP Principles of Engineering

H1019 10-12 FY credits: 1

This yearlong course is the second course in the Project Lead the Way high school pre-engineering program. The course introduces students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering design challenges through activity- and project-based learning. While working in teams, students continually hone their interpersonal skills, creative abilities, and problem solving skills as they apply engineering concepts. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. The course of study includes mechanisms (simple machines), energy sources, machine control, statics, material properties, and kinematics.

Prerequisite: College Prep Introduction to Engineering Design.

This course is a Running Start course. Students may elect contracted Honors component while enrolled in course.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

Television Production

H1031 11 FY credits: 2

This course is designed to introduce students to television production. It is expected that students who enroll in this course intend to complete a two year certificate program in television production. Curriculum includes studio television and remote video production, pre-production, post-production, critical viewing, and college and career exploration. Students will produce, direct, and rotate through all studio crew positions utilizing facilities at the Londonderry Access Center. Students will become familiar with DSLR camera use. Prior video/TV experience is not required. Class size is limited.

Double period

This course is a Project Running Start course.

Advanced Photography

H1010 11-12 S2 credits: .5

This course is a continuation of Photography, with emphasis on studio work and the creation of a successful student’s professional quality portfolio.

Prerequisite: Photography

CP Digital Electronics

H1026 11-12 FY credits: 1

Digital Electronics is the third foundation course in the Project Lead the Way high school pre-engineering program. Digital Electronics is the study of electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing engineering activities, projects, and problems, students will analyze, design and build digital electronic circuits. While implementing these designs, students will continually hone their interpersonal skills, creative abilities and understanding of the design process. The course topics include the foundations of digital electronics, combinational logic analysis and design, and an introduction to microcontrollers.

Prerequisite: Algebra II A or B

Students may elect contracted Honors component while enrolled in course.

This course is a Running Start course.

This course fulfills the four year math exposure NH DOE Minimum Standards for Public School requirement. The course, however, does not fulfill the 3 credit math graduation requirement.

Advanced Television Production

H1032 12 FY credits: 2

Students who have successfully completed Television Production are encouraged to enroll in this course. The second year of the program is project-based, which will culminate in pieces for each student’s resume DVD. Individual projects will include in-studio talk shows, a documentary, and public service announcements for local community organizations. Student productions may be cablecast on LEO21. The college application process and career exploration will be incorporated. A certificate of completion will be issued upon successful completion of the two year program.

Prerequisite: Television Production

Double period
THE COMPLETE, OFFICIAL PROGRAM OF STUDIES CAN BE FOUND AT HTTP://INFO.LONDONDERRY.ORG
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