# Wilton-Lyndeborough Cooperative High School

# PROGRAM OF STUDIES 2020 - 2021

57 School Road Wilton, NH 03086 603-732-9230

https://www.sau63.org/WLC

#### WILTON-LYNDEBOROUGH COOPERATIVE HIGH SCHOOL

57 School Road, Wilton New Hampshire 03086

Phone: 603.732-9230 Fax 603.654-2104

https://www.sau63.org/WLC

#### Administration

Brian V. Bagley, Principal

Sara Edmunds, Ed.D, Assistant Principal

#### **School Counseling**

Phone: 603.732-9313 Fax 603.654-2104

Amanda J. Kovaliv, School Counseling Coordinator

Ashely Goggin, School Counselor

Sharon L. Coffey, Registrar, School Counseling Administrative Assistant

#### **Core Values:**

Achievement Collaboration Diversity Integrity Responsibility

#### **Beliefs About Learning:**

All students have the potential to achieve.

We inspire lifelong learning and achievement through a broad range of experiences.

It is vital to maintain a safe, productive, and inclusive learning environment.

We recognize that students, parents and staff share responsibility for open communication to maintain a thriving school community.

#### Vision of the Graduate:

The WLC Graduate will be an effective communicator, a strong collaborator, a creative problem solver, a self-directed learner, and a responsible citizen.

#### INTRODUCTION

This Program of Studies has been prepared to assist students and their parents in deciding which courses to take at Wilton-Lyndeborough Cooperative High School. It provides information on course descriptions, suggested course sequences, required and elective courses, credit requirements, special programs, and selected school policies.

The careful selection of required and elective courses is an important first step toward a successful educational experience at Wilton-Lyndeborough Cooperative High School. Students should review the Program of Studies with their parents. Counselors, along with the student's advisor, will meet with students to hand out registration information, explain the registration process and discuss program planning. Students should consult with their core teachers to determine appropriate placement before course registration begins. Be sure to pay particular attention to course prerequisites, required courses, and college admissions requirements when selecting courses.

The Program of Studies is a comprehensive listing of programs and courses offered at WLC. Due to scheduling demands and student interests, courses offered will depend on the number of students who enroll for each course.

#### **School Counseling Services**

The mission of the Wilton-Lyndeborough Cooperative High School Counseling Department is to provide a comprehensive program that encourages the successful academic, career and social-emotional development of each individual. We believe through collaboration with students, families, school staff, and community members we can assist students in reaching their full potential.

#### **Academic Achievement**

- A. Students will acquire the attitudes, knowledge and skills contributing to effective learning in school and across the lifespan.
- B. Students will complete school with the academic preparation essential to choose from a wide range of substantial post-secondary options, including college.
- C. Students will understand the relationship of academics to the world of work, life at home and in the community.

#### **Career Planning**

- A. Students will acquire the skills to investigate the world of work in relation to knowledge of self and to make informed career decisions.
- B. Students will employ strategies to achieve future career goals with success and satisfaction.
- C. Students will understand the relationship between personal qualities, education, training and the world of work.

#### **Personal Social Development**

- A. Students will acquire the knowledge, attitudes and interpersonal skills to help them understand and respect self and others.
- B. Students will make decisions, set goals and take necessary action to achieve goals.
- C. Students will understand safety and survival skills.

#### School Counseling Services & Compliance with Federal and State Laws

The Wilton-Lyndeborough Cooperative School District complies with all Federal and state laws that apply to schools. These include:

- ✓ Family Education Rights and Privacy Act (FERPA)
- ✓ Individuals with Disabilities Education Act (IDEA)
- ✓ Child Find Notice: Children With Disabilities Under IDEA or Section 504 (ADA)
- ✓ Notice of Procedural Safeguards Under Section 504 and the ADA
- ✓ Child Neglect and Abuse
- ✓ Section 504 of the Americans with Disabilities Act (ADA)
- ✓ Section 504/Title II Grievance Procedure.

Visit the Wilton-Lyndeborough Cooperative High School Web Site: <a href="https://www.sau63.org/WLC">https://www.sau63.org/WLC</a>

## WILTON-LYNDEBOROUGH COOPERATIVE HIGH SCHOOL GRADUATION REQUIREMENTS

Students must earn 24 credits to graduate with a Wilton-Lyndeborough Cooperative High School Diploma. This diploma indicates that the student has completed a rigorous high school curriculum which exceeds the state requirements. The following courses are graduation requirements. The credit given for each course is included with the respective course description.

Students, who have not met the 24 credit requirement, will not receive a diploma at graduation. Any senior taking online course(s) MUST complete and receive a grade prior to graduation in order to take part in graduation rehearsals and walk at graduation.

Beginning with the class of 2019-all seniors will need to take a 4th unit of math, see page 22

Note: A course cannot be used to earn credit in more than one category.

SUBJECT	WLC DILPOMA	NH SCHOLARS CORE	NH SCHOLARS STEM 3.2 minimum GPA	NH SCHOLARS ART 3.2 minimum GPA	WLC NH STATE STANDARD DIPLOMA
ENGLISH	4	4	4	4	4
SOCIAL STUDIES	3	3.5	3.5	3.5	3
SCIENCE	3 Integrated Science, Biology + 1 Full-year 1 credit OR 2 Semester- Long ½ credit Science elective(s)	4 Lab Sciences (2 past Biology)	4 Lab Sciences (2 past Biology)	4 Lab Sciences (2 past Biology)	2
МАТН	3 + 0.5 or 1.0 Math Unit taken during Senior year	3 one past Algebra II + 0.5 or 1.0 Math Unit taken during Senior year	3 one past Algebra I + 0.5 or 1.0 Math Unit taken during Senior year	3 one past Algebra + 0.5 or 1.0 Math Unit taken during Senior year II	3
WORLD LANGUAGE Two years of the same Foreign Language	0	2	2	2	0
HEALTH	.5	.5	.5	.5	.5
PHYSICAL EDUCATION	1.5	1.5	1.5	1.5	1.0
ART	1.5	1.5	1.5	2	.5
INFORMATION & COMPUTER TECHNOLOGY	.5	.5	.5	.5	.5
SENIOR PROJECT	GRADUATION REQUIREMENT 1.0	0	0	0	Optional
COMMUNITY SERVICE	GRADUATION REQUIREMENT 24 HOURS	0	0	0	0
ELECTIVE OFFERINGS	5.5-6	4	4	4	5.5
STEM	N/A	N/A	1 One more year chosen from Tech, Engineering, Computers, Advanced Manufacturing, Science, Math, CTE Program	6	0
TOTAL CREDITS	24	24	24	24	20

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Students, who have not met the 24 credit requirement, will not receive a diploma at graduation. Any senior taking online course(s) MUST complete and receive a grade prior to graduation in order to take part in graduation rehearsals and walk at graduation.

Beginning with the class of 2019-all seniors will need to take a 4th unit of math

Note: A course cannot be used to earn credit in more than one category.

#### **Four Credits of English**

- 1.0 World Literature or Honors World Literature
- 1.0 The Individual in Society or Honors The Individual in Society
- 1.0 American Literature or Honors American Literature
- 1.0 British Literature, AP English Literature and Composition, or 2 English Electives (senior year)

#### **Three Credits of Social Studies**

- 1.0 World History or Honors World History
- 1.0 Honors U.S. History or Honors U.S. History
- 1.0 US Government & Economics or Honors US Government & Economics

#### **Three Credits of Science**

- 1.0 Integrated Science or Honors Integrated Science
- 1.0 Biology or Honors Biology
- 1.0 Science Elective(s)

#### Three Credits of Mathematics (and an additional UNIT of math in 12th grade-see page 23)

- 1.0 Basic Algebra A, Algebra I, Honors Algebra 1 or Honors Geometry
- 1.0 Geometry, Honors Geometry, Basic Algebra B or Honors Algebra II
- 1.0 Algebra II, Honors Algebra II, Honors Precalculus, Precalculus, The Power of Math
- None additional unit of math. Any math course qualifies. However, this may be earned outside of the Math Department via interdisciplinary coursework. See Page 23 of the Program of Studies for a complete list of courses that qualify.

#### **Unified Arts**

- 1.5 Credits in Art, Music, Industrial Arts, or Family & Consumer Science
- 1.5 Credits in Physical Education

#### **Requirements & Electives**

- 0.5 Credit in Health
- 0.5 Credit in Computer Education
- 6.0 Electives

#### **Senior Project Requirement**

1.0 This is an individual pursuit of a topic of particular interest. It is a demonstration of the senior's ability to learn independently from a variety of resources, while guided by a Mentor.

#### **SENIOR PROJECT - GRADUATION REQUIREMENT**

Senior Project provides high school seniors the opportunity to employ the "core competencies" they have acquired at WLC to demonstrate their skills as creative, future-oriented problem solvers.

Honors Level Senior Project is designed for students who are top-level, highly motivated students, who demonstrate critical thinking skills, and look to exceed expectations.

Students are asked to identity their "passion". (By "passion" we mean: A subject or activity in which a student has a keen interest). Once they have articulated their passion, students select an in-district mentor and an out-of-school expert. With the assistance of the mentor and expert, the student designs an essential question to guide their research and the application of that research. At the end of a year of exploration, study, and practice, students present their findings in a public setting to a panel of judges for evaluation. After the public presentation, students are required to write a reflective essay about their journey and present it to the program coordinator(s).

This is a full-year requirement and earns 1.0 Credit.

\* Transfer students who arrive from other schools **BEFORE** November 15, are required to complete the Senior Project Requirement for graduation. Transfer students from schools with an existing Senior Project Program are expected to continue the Senior Project they began in their school before they transferred to WLC. Transfer students who arrive at WLC **AFTER** November 15 are exempt from the Senior Project Requirement.

#### WLC SERVICE LEARNING - GRADUATION REQUIREMENT

Each student at WLC is required to complete a minimum of 24 hours of Service Learning during their high school career in order to graduate. Juniors entering the year in September must have 12 hours of community service documented and seniors entering the year in September must have 18 hours documented. Students may begin accruing hours beginning the summer prior to ninth grade. The yearly community service requirement may be satisfied by participation in either a single activity or a combination of approved activities. \*Transfer students must contact the School Counseling Office to determine the amount of time required.

Students are required to complete the service learning form (available in the School Counseling Office and online at (<a href="https://www.sau63.org/WLC">https://www.sau63.org/WLC</a>). The form requires the student to reflect on his/her service and to share his/her thoughts in writing. WLC students are expected to produce at a minimum a well-written paragraph for this section. Service learning credit can be delayed if this section is not completed satisfactorily.

If a student does not complete the required 6 hours, the student does not attain the privileges accorded to his/her class, including but not limited to Senior privileges and parking privileges. Graduating seniors must complete and have accepted all service learning hours no later than the Friday prior to graduation to participate in Senior Week activities, including graduation. Students may complete more than 6 hours of service a year, but any hours over 6 does not "carry over" to the next year. We believe at WLC that service to the community is an ongoing activity.

Service learning opportunities may be found of the Service Learning webpage of https://www.sau63.org/WLC.

### WLC Student Learning Expectations

A WLC Student is academically knowledgeable and demonstrates the following:

	4- Distinguished	3- Proficient	2- Progressing	1- Emerging
	Student does		Student	
An Effective Communicator	Express opinions, ideas and facts in an outstanding manner in all formats  Present developed and clear ideas using evidence and/or details  Interpret information with unique insights based upon sufficient evidence  Deliver high quality information based upon a wide range of reliable sources  Cite/ credit all sources accurately	Express opinions, ideas, and facts clearly and effectively through a variety of formats (oral, written, visual, digital), considering the audience  Present developed and clear ideas using evidence and/or detail  Interpret information logically, based upon sufficient evidence  Obtain and deliver information based upon a variety of resources  Cite/credit sources of information accurately.	Sometimes lacks clarity when expressing opinions, ideas, and facts.  Communicates effectively in some formats  Presents somewhat developed and clear ideas using a limited amount of evidence and/or detail  Information may be interpreted with limited detail  Obtain and deliver information based upon limited resources  Cites/credit few sources of information	Expresses opinions, ideas, and fact with limited clarity  Has difficulty communicating in most formats  Rarely presents developed and clear ideas using evidence and/or detail  Information may be interpreted with little or no evidence  Obtain information based upon little or no supporting evidence  Rarely cites sources
A Strong Collaborator	Highly cooperative with a high level of respect, considering the perspectives of others  Listen attentively; share resources freely and ideas respectfully  Fulfill roles in a high quality manner  Incorporate different points of view to achieve a common goal  Demonstrate great flexibility and willingness to compromise with a strong focus on the common goal	Cooperate with peers and adults respectfully  Listen attentively; share ideas and resources respectfully  Accept and fulfill roles  Respect and consider different/multiple points of view, diverse cultures, and global issues  Exercise flexibility and willingness to compromise in order to achieve a common goal	Cooperation with peers and adults varies  Sometimes listens and shares ideas and resources  Is somewhat reluctant to participate and fulfill roles  Sometimes contributes in a less than respectful manner or not considering the ideas or feelings of others  Is somewhat flexible and willing to compromise in order to achieve a common goal	Has difficulty cooperating with peers and/or adults  Appears to rarely listen to others ;rarely shares ideas and resources  Rarely participates or performs assigned roles  Frequently contributes in less than a respectful manner or not considering the ideas and feelings of others  Is rarely flexible and willing to compromise in order to achieve a common goal

	4- Distinguished	3- Proficient	2- Progressing	1- Emerging	
	Studen	t does	Student		
A Creative Problem Solver	Think, create, and solve problems in highly innovative ways  Recognize social and cultural differences to create new ideas and increase both innovation and quality of work  Consider a wide variety of ideas, strategies, and solutions	Solve problems, sometimes in innovative ways  Demonstrates creativity/unique approaches  Frequently considers a variety of ideas, strategies, solutions, and contexts (subject areas or environment)	Uses more typical ways of thinking, creating, and solving problems  Considers a narrow range of ideas, strategies, and solutions  Incorporates limited resources	Thoughts and solutions are basic recall of previous learning  Considers few, if any, ideas, strategies, or solutions  Incorporates few, if any, resources	
	Incorporate a wide range of high quality sources  Apply highly effective and/or cutting edge technology  Apply inferences and data interpretations to solutions	Incorporate many different resources  Apply appropriate technology  Make inferences and interpret data	Attempts to apply appropriate technology  Inferencing and data interpretation are limited	Applies little technology  Struggles with making inferences and interpreting data	
A Self- Directed Learner	Persevere to completion of complex, challenging tasks  Demonstrate a highly positive attitude  Take a high level of responsibility and self-motivation for own learning, self-assessment, and personal development  Engage mentors and stakeholders to gain support for ideas or projects  Demonstrate a high level of curiosity and self-inquiry, sometimes outside a prescribed learning context  Model personal accountability and high quality work habits	Persevere with complex, challenging tasks  Demonstrate a "can do" attitude  Take an active role/initiative in learning and personal development, including goal setting and self-assessment  Work independently  Seek out other, including stakeholders, to learn from or gain support  Initiate inquiry often  Take personal accountability and demonstrate effective work habits (punctuality, managing time, including deadlines and work load)	Shows limited perseverance in completing complex, challenging tasks  Sometimes has a positive attitude  May rely on others for initiating learning and development  Works independently some of the time  Occasionally engages others in own learning or projects  Relies on others to initiate and prescribe inquiry opportunities	Gives up easily when facing complex and/or challenging tasks  Infrequently demonstrates a positive attitude  Takes a limited role in own learning and personal development; needs external motivation  Resists or struggles with independent work  Ideas or projects are pursued with little or no input from others  resists efforts by others to prescribe inquiry opportunities	

	4- Distinguished	3- Proficient	2- Progressing	1- Emerging
	Student	does	Student	
A Responsible Citizen	Act in a highly responsible manner with respect for others  Demonstrate leadership as a contributing member of the larger community  Initiate school activities that demonstrate school and community pride  Recognize ethical behavior in others while demonstrating integrity in their influence  Make decisions with the best interest of others in mind  Respect cultural difference and work effectively with people from a range of social and cultural backgrounds  Initiates, maintains, and encourages activities that service the community  Convey a greater appreciation of the arts	Accept responsibility and understand the impact of personal actions  Demonstrate an awareness of 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; do what's "right"  Make decisions considering how others think and feel  Demonstrate empathy toward others  Demonstrate social awareness and interpersonal skills to establish and maintain positive relationships  Participate in service to the community  Value the arts (performing and visual) as forms of human expression	Exhibits limited responsibility for the impact personal actions have on the community  Needs reinders about the rights of others  Participates in limited school activities  Acts in an appropriate manner most of the time to do what is right  Needs reminders to consider how others think and feel  Social awareness and interpersonal skills need development  Limited participation in school and community service  Is beginning to understand that people express themselves through the arts	Infrequently accepts responsibility for personal actions  Frequently trespasses on the rights of others  Little to no participation in the school community  Frequently speaks negatively about our school  Disrespectful of school property  Lacks consideration for others  Lacks awareness of the impact on others  Is not community-minded  Limited interest in the arts



#### **NEW HAMPSHIRE SCHOLARS**

Wilton-Lyndeborough Cooperative is proud to be the 20<sup>th</sup> school to join New Hampshire Scholars. New Hampshire Scholars is a federally funded program developed and administered through a partnership between the New Hampshire College and University Council, the New Hampshire Forum on the Future, the New Hampshire Department of Education and the National State Scholars Initiative Network. The program pairs business leaders with classes of 8th Grade students prior to the selection of their high school courses. Business leaders present the students with a powerful presentation that provides the rationale for the recommendation that students take a more rigorous Core Course of Study in high school. Students will contract to the program by means of a 4-year planner - a personalized education plan - to complete the recommended Core Course of Studies.

Remember, the Core Courses listed below are required to graduate as a NH Scholar. However, we recommend students complete four years each of math and science.

#### The following is the State Scholars Core Course of Study

\* Please note the additional course(s) needed for NH Scholars STEM and NH Scholars Arts are listed at the bottom

#### **Four Credits of English**

- 1.0 World Literature OR Honors World Literature
- 1.0 The Individual in Society OR Honors The Individual in Society
- 1.0 American Literature OR Honors American Literature
- 1.0 British Literature, AP English Literature and Composition OR 2 English Electives

#### Three and ½ Credits of Social Studies

- 1.0 World History OR Honors World History
- 1.0 Honors U.S. History OR Honors U.S. History
- 1.0 US Government & Economics OR Honors US Government & Economics
- 0.5 Social Studies Elective

#### Four Credits of Science - chosen from the list below

- 1.0 Integrated Science OR Honors Integrated Science
- 1.0 Biology OR Honors Biology
- 2.0 Chemistry OR Honors Chemistry, Physics OR Honors Physics, Environmental Conservation, Marine Biology, Basic Human Anatomy & Physiology Microbiology: Principles & Practices/Biotechnology/Genetics, Astrobiology, Astronomy

**Three Credits of Mathematics** +  $\sqrt{x}$  One additional unit of math, this may be earned outside of the Math Department via interdisciplinary coursework. See Page 23 of the Program of Studies for a complete list of courses that qualify.

- 1.0 Algebra I or Honors Algebra I
- 1.0 Algebra II or Honors Algebra II
- 1.0 Geometry or Honors Geometry
- $\sqrt{x}$  One additional unit of math, this may be earned outside of the Math Department via interdisciplinary coursework. See Page 23 of the Program of Studies for a complete list of courses that qualify.

#### Two Credits of World Language

- 2.0 Two years of the same language other than English
  - \* The New Hampshire State Scholars <u>STEM</u> Course of Study is the same as the State Scholars Core Course of Study above, PLUS 1.0 credit chosen from Technology, Engineering, Computers, Advanced Manufacturing, Science, Math, CTE Program
- \* The New Hampshire State Scholars <u>ART</u> Course of Study is the same as State Scholars Core Course of Study PLUS 0.5 art credit

## WILTON-LYNDEBOROUGH COOPERATIVE HIGH SCHOOL NH STATE STANDARD DIPLOMA

A New Hampshire State Standard Diploma for Academic Achievement may be awarded to any student who completes the state minimum required 20 units of credit as defined by Ed306.27(m) but who does not qualify for a Wilton-Lyndeborough Cooperative Diploma.

The WLC State Standards Diploma Program is intended for students who have experienced difficulty earning credits, are no longer able to graduate on time with their age cohorts, or need an alternative route to completing their education. Students must be at least 16 years of age. Student needs to be a junior and fill out the required paperwork to be reviewed by Administrative Staff. In order to participate in the WLC State Standards Diploma Program, both the student and parent (if student is under the age of 18) must affirm that they understand the purpose and structure of the program.

Students and parents must acknowledge the following:

- Participation in the WLC State Standards
- Diploma Program must be approved by administration.
- Other means of education have been considered (Credit Recovery, Summer School, VLACS.
- Successful completion of the WLC State Standards Diploma Program will result in receipt of a State Standards Diploma (not WLC diploma).
- Students <u>are</u> permitted to take part in the high school graduation ceremony.
- A detailed plan outlining attainment of required credits must be prepared and followed

#### **Four Credits of English**

- 1.0 World Literature
- 1.0 The Individual in Society
- 1.0 American Literature
- 1.0 British Literature OR 2 English Electives

#### **Three Credits of Social Studies**

- 1.0 World History
- 1.0 U.S. History
- 1.0 US Government & Economics

#### **Two Credits of Science**

- 1.0 Integrated Science
- 1.0 Biology

#### **Three Credits of Mathematics**

- 1.0 Algebra A and Algebra B or Algebra I
- 2.0 Math Electives

#### **Unified Arts**

- 0.5 Credits in Art, Music, Industrial Arts, or Family & Consumer Science
- 1.0 Credits in Physical Education

#### **Requirements and Electives**

- 0.5 Credit in Health
- 0.5 Information Communication & Technologies
- 5.5 Electives

**Senior Project - Optional (See page 7)** 

SEER
Student
Exploration Extension
Reinforcement

#### **Alternative Methods of Earning Academic Credit**

EXTENDED LEARNING OPPORTUNITIES (ELOs) Internship

**Independent Study** 

#### **ONLINE COURSES**

Virtual Learning Academy Charter School Courses COLLEGE COURSES
(Dual Credit)

Early College
EStart
Running Start

Generally, courses required for graduation are taken at Wilton-Lyndeborough Cooperative High School. Students who wish to take courses through an extended learning opportunity and/or online programs may do so in consultation with the School Counselor and pre-approval of the principal. In all cases, an Alternative Credit Application must be completed and permission obtained prior to the commencement of the class/program. For these courses to obtain credit, they must be taken at an accredited high school, college or university and an official transcript must be provided to the school registrar.

#### **EXTENDED LEARNING OPPORTUNITIES (ELOS)**

Extended Learning Opportunities are programs or opportunities in which the primary acquisition of knowledge and skills is through instruction or study outside of the traditional classroom methodology, including but not limited to apprenticeships, independent study, internships, and performing groups. ELOs allow students to earn credit towards graduation outside of the traditional classroom methodologies. ELOs are supervised, competency-based programs or studies that allow students to expand their learning environment.

The purpose of ELOs is to provide learning that is meaningful and relevant to the student and/or school or community. ELOs provide students with opportunities to explore and achieve at high levels. Extended learning opportunities should be stimulating and intellectually challenging and enable students to fulfill or exceed the expectations set forth by State minimum standards and applicable Board policies.

These courses will reflect either a Pass (P) or Fail (F) letter grade on the WLC transcript. Pass will received credit and Fail will not. GPA is excluded from these courses, and therefore is not tabulated in overall GPA.

#### **ELO Philosophy**

The WLC High School believes that students should have access to Extended Learning Opportunities as they support the WLC MS/HS Mission. We believe that ELOs allow students to experience education in diverse settings and with non-traditional methodologies that may address the different learning styles of our students. ELOs allow for in-depth learning that allows students to explore and immerse themselves in an area of their own interest. ELOs are a part of the educational program which provides students with the best possible education and options to reach their potential at WLC HS.

Students interested in an ELO should see the ELO Coordinator.

#### **INTERNSHIPS**

WLC believes students should be provided with community-based Extended Learning Opportunities (ELOs) that support students earning non-traditional credit. The primary acquisition of knowledge and skills through instruction or study outside of the traditional classroom methodology. We believe that students have many different learning styles and that they should have many experiences available to them outside of the traditional classroom environment. Our goal is to provide the best possible education for students at WLC by having more options to reach their potential. GPA is excluded from these courses, and therefore is not tabulated in overall GPA.

#### INDEPENDENT STUDY

Students may investigate independent studies by contacting the specific teacher the student wishes to work with. The school counselor will assist in determining if the student is eligible. The supervising teacher and the student complete an ELO form for approval before the semester begins. Teachers must be certified in the course content area. Independent Study courses fulfill an elective graduation requirement; these courses are graded Pass or Fail. GPA is excluded from these courses, and therefore is not tabulated in overall GPA.

#### **ONLINE COURSES**

We offer students the opportunity to take online classes through Virtual High School and Virtual Learning Academy Charter School. VHS and VLACS offer a variety of courses that are not offered at WLC and allow students to further explore their own interests to complete their elective and extracurricular requirements. VHS and VLACS courses require permission from the School Counselor. These courses will reflect the actual letter grade earned and the GPA associated with it, this will be tabulated and included in overall GPA

**Taking Core Classes Online Policy**: Students are strongly encouraged to take all credit requirements at WLC. However, in some circumstances students are allowed to take such a class online. Students must first try the WLC offered course in the classroom setting. If it is apparent that the student's education would further benefit from an alternative setting in order to gain course credit, a meeting with the student, parent/guardian, teacher and school counselor will take place to explore further options. Upon further review, permission must be granted by administration and school counselor in order for the student to take the online course.

**VLACS** - Virtual Learning Academy Charter School can begin at any time during the school year and students complete the course at their own pace earning a half or full credit based on course selection. For more information you can visit the VLACS website at www.Vlacs.org

#### **COLLEGE/UNIVERSITY CREDIT = DUAL CREDIT**

With prior approval from the school counselor and before the beginning of a semester a student must be approved for college level courses. Students earn high school and college level credit simultaneously. All applications must be completed and approval granted from the school counselor. Credit will be granted for a college course provided that a passing grade is earned. 0.5 credit will be awarded for a semester long course and 1.0 for year-long courses. **These courses are considered honor level high school courses and will be awarded honors GPA.** 

**Early College:** Early College pathways enables students to jump start their college education by earning college-level credits during their high school years. Students are integrated into regular college classes on the NCC campus or online. With guidance from Nashua Community College advisers, students select courses from the general education program or take a sequence of courses in a particular curriculum.

Earn college credits at a fraction of the cost of a four-year university. NCC's in-state tuition rate is only \$250 per course. Contact the NCC Admissions Office for more information at 603-578-8908.

**eStart:** eStart is a dual credit program that affords NH high school students the opportunity to take 100% online college courses through the Community College System of New Hampshire (CCSNH), while earning both high school AND college credit simultaneously.

This program allows students to earn high school AND college credit for the same online course. They can access their class anytime/anywhere to fit their busy schedule. Students will learn from highly qualified CCSNH faculty and gain valuable experience with college coursework. The credits earned transfer to many colleges and universities. Tuition is \$150 plus the cost of textbooks.

eStart is a partnership between the Community College System of NH(CCSNH) and the Virtual Learning Academy Charter School (VLACS)

**Running Start:** The Running Start program allows high school students to take Community College System of NH (CCSNH) courses for high school AND college credit while still in high school. Courses offered through the Running Start program are college courses taught at the high school by CCSNH college credentialed high school faculty as part of the daily class schedule. Currently the tuition price per credit is \$150.00 plus the cost of textbook(s). College courses are generally either 3 or 4 credits.

Each student, along with their parent(s) is required to sign a contract to ensure that all parties understand the agreement, costs and terms.

#### CREDIT ACCUMULATION GUIDELINES

Beginning in 9th Grade, progress toward graduation depends on the accumulation of credits and passing required subjects. The following credit accumulations are guidelines for entrance into Grades 10, 11, and 12:

At the completion of Grade 9: 6 Credits At the completion of Grade 10: 12 Credits At the completion of Grade 11: 18 Credits

It is the student's responsibility to meet periodically with his/her counselor to ensure all graduation and credit requirements are completed.

#### Middle School Students Enrolled in High School Courses

Students who take high school course while enrolled in middle school will earn credit towards high school graduation. These courses are tabulated in their overall High School GPA. The course will appear on their high school transcript and will count towards graduation credits. However, students are still required to fulfill all math course requirements for graduation within their 4 years of high school. Three math credits plus one additional unit of math, which may be earned outside of the Math Department via interdisciplinary coursework. See Page 23 of the Program of Studies for a complete list of courses that qualify.

- Report Cards are generated and credit is assigned for S1 and S2/YL
- Semester long classes earn .5 credit.
- Year Long courses earn 1.0 credit.

#### **Summer Enrichment**

Students are encouraged to participate in summer enrichment experiences. These programs are seen as enrichment only and do not qualify for credit. Programs such as St. Paul's Advanced Studies Program, Phillips Exeter Summer Program, courses taken at college/university qualify for academic credit. See your counselor for more information.

#### **Official Snapshot for Seniors**

Each October grades will be captured on a specific date. These grades will be part of the senior college application process and sent to colleges/universities as their Semester 1 senior courses with grades along with their official transcript for the start of their senior year.

#### **Report Cards**

Report cards are issued twice a year at the end of Semester 1 and at the end of the school year in June. Assignments, grades, and attendance information is available to families through the PowerSchool Parent Portal.

#### **Grade Weighting**

Honors, Dual Credit (Running Start) and Advanced Placement courses from each major department carry more weight in calculating Grade Point Average.

#### WLC GRADE SCALE

#### **Academic Program**

Listed below is an explanation of the three academic programs and their criteria. All levels may not be offered every year.

Advanced
Placement

WLC offers several Advanced Placement course per year. They are designed to develop higher-level reading, critical thinking, verbal, and writing skills and to develop an understanding of complex concepts. Students should expect significant homework and/or research assignment.

#### Honors & Dual Credit Courses

These are rigorous courses offered at Wilton-Lyndeborough Cooperative. They are designed for students with high motivation. The goal is to develop advanced reading, critical thinking, verbal, and writing skills and to develop an understanding of complex concepts and themes through extensive investigation. These courses require a significant amount of homework and the ability to plan for both short and long term assignments. Enrollment in these courses is based upon instructor recommendation.

#### General Course of Study

These courses offer a curriculum designed to meet the needs of students who require a more basic approach to the subject. They are designed to develop reading, critical thinking, verbal, and writing skills. These courses will require homework and the ability to complete research assignments.

Taking into consideration a student's interests, abilities and performance, different levels may be selected for different subject areas. The student may have the opportunity to adjust their level when appropriate.

#### **COURSE WEIGHTINGS AND RANK IN CLASS PROCEDURES**

		COULDE II LIG		J I ILO GLID CILLID		
Gr	ade	<b>Honors Level</b>	General Course of Study	Percentage	Gra	de
Α	+	4.9	4.5	98 - 100	Α	+
A		4.6	4.2	93 - 97	Α	
Α	-	4.3	3.9	90 - 92	Α	-
В	+	3.9	3.5	88 - 89	В	+
В		3.6	3.2	83 - 87	В	
В	-	3.3	2.9	80 - 82	В	-
C	+	2.9	2.5	78 - 79	C	+
C		2.6	2.2	73 - 77	C	
C	-	2.3	1.9	70 - 72	C	-
D	+	1.9	1.5	68 - 67	D	+
D		1.6	1.2	66 - 67	D	
D	-	1.3	0.9	65	D	-
F		0.0	0.0	64 and below	F	

High Distinction Diploma - GPA of 3.7-4.9 Distinction Diploma - GPA of 3.3-3.7

WLC Diploma - 0.0-3.3

#### **COMPETENCY-BASED GRADING**

"Competencies" - students learning targets that represent key content-specific concepts, skills, and knowledge applied within or across content areas. They serve as the basis of the curriculum. Students MUST pass ALL of the competencies in order to receive credit for each course. WLC has defined competencies for each course offered. Students will receive the traditional grade and credit only when he/she meets the competencies. If any course competency is not met, the student will receive a NC (No Credit) in place of the final grade.

#### **Academic Progress Information**

In many instances, unsatisfactory and failing grades should be followed by a student-parent-teacher conference. Parents may also want to discuss any difficulties that their son/daughter might be experiencing with their child's counselor. Students are eligible to remediate their grade and receive up to 80% on assessments.

Grades are captured at the end of Semester 1 and Semester 2 for semester long courses. Year Long courses are granted credit at the end of the year. GPA is awarded upon completion of a course, therefore, semester long course will be awarded at Semester 1 and Semester 2, while Year Long course will not receive GPA until the end of the school year.

- Students' progress is updated in PowerSchool using "Competency Status" updates and comments regularly.
- Report Cards are generated and GPA is assigned for S1 and S2/YL
- Semester long classes earn .50 credit and accrue ½ GPA.
- Year Long courses earn 1.0 credit and accrue full GPA.
- Passing a class with a traditional grades does not mean a student receives credit for the course.
- Competencies override the traditional grades when determining course credit.
- Traditional grades are used to calculate GPA, and for transcript.

#### **Competency Status and Comments in PowerSchool**

Each "Competency Status" assignment will have a letter code (OK, P, NYP, IWS, NC) associated with it. A comment may also be associated with a score; click on the highlighted score for any assignment and the comments included will be displayed. Examples are provided below.

**P** (*Proficient*) upon satisfactorily meeting a proficiency goal, the "OK" will be updated to a "P". The comment associated with this code will indicate the proficiency has been met.

**NYP** (*Not Yet Proficient*) - indicates that the student is having difficulty with one or more competencies. There will be a comment associated with this code to indicate where the difficulty lies.

**IWS** (*Insufficient Work Shown*) - indicates that the student is missing one or more assessments for competencies. There will be a comment associated with this code to indicate what is missing.

**NC** (*No Credit*) - If a student fails to meet the proficient level in any of the course competencies by the conclusion of the class\*, an NC will appear in place of the traditional grade. This indicates that the student has not received credit for the course and will have to complete a Credit Recovery Plan, or retake the course. Upon the successful completion of missing competencies, the traditional grade will be restored and factored into the student's cumulative GPA.

#### **GRADE POINT AVERAGE**

A student's Grade Point Average (GPA) is determined at the last snapshot at the end of the school year. GPAs are recorded on the transcript cumulatively. Wilton-Lyndeborough Cooperative High School does rank its students.

Semester long course are awarded credit and GPA at the end of Semester 1 and Semester 2. Year Long courses are awarded credit and GPA at the end of the year.

#### **CLASS RANK**

Class Rank is obtained by the cumulative averages of all students in a class. Class rank is calculated at the conclusion of each semester beginning after the spring semester of freshman year. Official ranks are accumulated in June and January. It is important to note: At Wilton-Lyndeborough Cooperative High School, ALL Pass/Fail courses are excluded from GPA, however they are awarded credit.

#### **TOP TEN**

For the purpose of the top ten (10) graduating students and the positions of Senior Class Valedictorian and Salutatorian cumulative GPA will be calculated two weeks after Semester 1 grades close. At this time credit and GPA will be awarded for both Semester 1 and Year Long courses. Once this has been determined the Top Ten will be notified and these credits and GPA will revert back to their original status. These results are to be absolute.

The GPA of any senior who has been at WLC for one academic year or less will, to our best ability, be translated into the WLC formula for calculation of GPA and class rank. If the student's rank in class falls within the top ten range, then the student will share the rank with the WLC student who is currently at that rank resulting in Top Eleven.

#### SEER

"Students\*Exploring their talents\*Extending their academic day\*Reinforcing their learning"
Students in Grades 9-12 meet in their assigned SEER twice per week to confer with teachers, collaborate with peers, and complete assignments. During this 45-minute period, students may sign up for enrichment activities, access the library, attend school assemblies, School Counseling Department programs, and other scheduled school programs. Learning labs are available for those students who require additional classroom help.

#### **HONOR ROLL**

The scholastic Honor Roll is prepared and published twice a year. Students who drop a class and receive a grade of "WDF" are not eligible for honor roll.

#### HONOR ROLL CLASSIFICATIONS

High Honors: Students who have received a grade of A- or higher in all subjects Honors: Students who have received a grade of B- or higher in all subjects

#### **SENIOR PRIVILEGES**

Senior Privileges allow 12th grade students in good academic standing, including Senior Project and Service Learning, to manage their time during the day when they are not scheduled for a class. An application, found in the school counseling office, needs to be completed before approval.

#### FOREIGN EXCHANGE STUDENTS

Foreign exchange students upon entering WLC are enrolled as Juniors. They do not participate in graduation ceremony and do not receive a diploma.

#### ADVANCED PLACEMENT COURSES/EXAMS

Students taking an advanced placement exam are not required to attend the regular classes on the day of an AP exam. Student must arrive 15 minutes prior to the exam start time to ensure their attendance and complete required paperwork.

#### **COURSE REGISTRATION PROCEDURES**

Course registration begins in January/February for upcoming freshmen and returning high school students. The process is announced by teachers and the School Counseling Department, to provide students and parents information to make appropriate course selections. Many courses have prerequisites and honors or AP level core courses require approval from the current teacher for enrollment. Students should discuss levels with their current teachers or core class instructors to ensure correct placement in courses. Course registration deadlines are important. Students should always work with their counselor if they have any questions or concerns. A separate contract must be signed by students and their parent(s) for any students who wished to take Running Start, EStart or Early College Courses to ensure that all parties understand the agreement, costs and terms.

#### TEACHER RECOMMENDATIONS/OVERRIDES

Teachers recommend the appropriate course selection for students. Experience has confirmed our belief that a student's current teacher is the most qualified person to make this recommendation based not only on the student's performance, but also on the teacher's evaluation of the student's potential and ability.

At times, parents may disagree with the teacher recommendation. When this occurs, we strongly encourage you to discuss the course selection with your child, the teacher and school counselor. Parents and students are highly cautioned about completing a Course Override Form. If a parent overrides a teacher recommendation and the student begins to experience difficulty in the class, moving the student to a lower level may not be possible. In addition, your child's transcript will permanently reflect a Grade of WDF (withdraw/fail). Please consider this decision carefully before taking this course of action. Students who receive a snapshot Grade of WDF are ineligible for Honor Roll.

#### TAKING HIGHER LEVEL COURSES WITHOUT TEACHER RECOMMENDATION POLICY

Any students interested in taking a higher level class at WLC for which they have not been recommended must have a meeting with their parent/guardian, previous subject teacher, teacher of higher level course and school counselor. This meeting must take place during the academic school year.

#### **DROP/ADD PROCEDURES**

Student may withdraw from a course prior to the add/drop period of a semester without academic penalty, and without the course being listed on the student's transcript. After the Add/Drop period, but before deficiency notices are issued, a student may withdraw from a course with a "WDF" grade ("withdrawal with failure"). Please consider this decision carefully prior to taking this course of action; the students' transcript will permanently reflect a "WDF". Student will receive no partial withdrawal credit for time spent in the course. The failing grade will be computed in GPA, often resulting in a lower GPA. Students receiving a WDF are ineligible for the Honor Roll. This policy applies to all, but is not limited to; all courses taught at WLC, courses offered to WLC students via Contoocook Valley, Mascenic Regional High School or Milford Technical High School. Virtual Learning Academy Charter School (vlacs.org), Running Start, eStart and ELOs. Students who withdraw from classes after the add/drop period must have, in writing, permission from Teacher, School Counselor, and Parent(s)/Guardian(s). A withdraw/fail grade will be assigned for all such withdrawals.

#### ASSESSING OUT OF HIGH SCHOOL CLASS(ES) POLICY

In order for students to test out of a high school class, they must adhere to the following; have a meeting with their parent/guardian, teacher, and school counselor during the academic school year. Students must earn a grade of 65 or higher on the assessment in order to gain their credit. Grades will show up on academic transcripts as P (pass) with no numerical grade counting for or against a student's GPA. A student will not be able to receive Honors credit for the course. Subject matter and competency requirements for the test will depend on specific curriculum and standards set forth by the teacher.

#### ACADEMIC EXTENSION AND STUDY HALLS

Academic Extensions and Study Halls are offered at WLC for students who need extra study time, these classes do not carry credit or GPA and will not be listed on the Transcript.

#### **AUDIT POLICY**

With the recommendation of the receiving and sending teacher, students may request to Audit. The purpose of the Audit is to participate in a course in an effort to further develop academic knowledge and build a stronger academic foundation. Students must complete an Audit Agreement (located in the School Counseling office) to be signed by parent, teacher, and school counselor. **Please note: audited courses are not taken for credit and do not impact GPA.** 

#### **OVERVIEW OF COLLEGE ADMISSION REQUIREMENTS**

The choice of a high school curriculum and course selection may limit or enhance college entrance opportunities and achievement in college. Students are strongly encouraged to take as demanding a schedule as possible where they will be successful. Most successful candidates for admission to college have taken at least four years of English, three plus years of college preparatory mathematics, laboratory science, and social studies. Successful candidates have also completed three years of study in a single world language. However, students must read specific college catalogs to be certain of their particular requirements especially in areas such as engineering, nursing and physical therapy. A major factor leading to success in college admission and as a college student is the academic preparation a student achieves in high school. Students need to consider this as they plan for their course selection each year.

#### **COLLEGE SELECTIVITY**

Colleges may be classified according to their standards for admission. Students should carefully review these categories as they plan for college.

**Most Competitive:** Even superior students will encounter a great deal of competition for admission to these colleges, In general, these colleges require a class rank in the top ten percent and grade point average of 3.8 and above. The strongest curriculum possible in high school is required. Average test scores of admitted students are 700-800 on each section of the Critical Reasoning SAT and 30 or above on the ACT. These colleges typically require at least three SAT Subject Tests. These colleges admit a small percentage of those who apply.

**Highly Competitive:** The group of colleges is looking for students with minimum grade point averages of 3.65 and accepts most of their students for the upper 10 to 20 percent of the high school class. A very strong high school curriculum is required. Average test scores of admitted students are 650-800 on each section of the Critical Reasoning SAT and 28 and above on the ACT. These colleges recommend that prospective students take at least three SAT Subject tests.

**Very Competitive:** The colleges in the category admit students whose grade point averages are no less than 3.5 or above, who rank in the top 25-30 percent of their graduating class, and who have taken a solid college preparatory and honors program in high school. Average test scores are in the 600-700 range on each section of the Critical reasoning SAT and from 28 above on the ACT.

**Competitive:** These schools enroll students with average test scores from 500-650 on each section of the Critical Reasoning SAT and from 23 to 28 on the ACT. Many colleges prefer students in the top 30 to 40 percent of the graduating class.

**Less Competitive:** The colleges in this category look for students in the upper half of their graduating class who have taken a college preparatory program and have scored around 500 on each section of the Critical Reasoning SAT and 20-26 on the ACT. They admit students with a GPA range of 2.3-2.8

**Noncompetitive:** Colleges in this category require only evidence of graduation from an accredited high school program or equivalent. Some require entrance examinations for course placement purposes.

#### **SPECIAL COLLEGES**

These colleges feature specialized programs of study. They include professional schools of art, music, or theater arts, or seminaries preparing students for the clergy. In general, admission requirements are not based on academic criteria but on evidence of talent or special interest in the area of study and often require an audition or portfolio of the students work in order to be admitted.

#### POST HIGH SCHOOL EDUCATION

Some students benefit from a post graduate year of study. Students who do not feel academically, socially or emotionally ready to attend college have often found success with this option after graduation. There are a variety of schools that offer this year of study that helps students solidify their academic foundation enabling them to move on to a college experience of their choice.

#### POST HIGH SCHOOL EMPLOYMENT

Students interested in going on to a career immediately after high school may take advantage of career opportunities offered throughout their high school experience in order to enhance their opportunities. Employers will base their decision to employ a student on a variety of factors. These factors include high school diploma, grades, attendance record, recommendations from teachers and counselors, extracurricular activities, and personal characteristics.

#### COLLEGE PREPARATORY TESTING

#### **PSAT 8/9**

#### -Administered to ALL 9th grade students in the Spring at WLC

The PSAT 8/9 measures the same skills and knowledge in ways that make sense for different grade levels, so it's easier for students, parents, and educators to monitor student progress. The tests are designed to:

- Measure the essential ingredients for college and career readiness and success, as shown by research.
- Have a stronger connection to classroom learning.
- Inspire productive practice.

As students advance from grade to grade, the tests will keep pace, matching the scope and difficulty of work found in the classroom.

#### **PSAT 10**

#### -Administered to ALL 10th grade students in the Spring at WLC

The PSAT 10 and the PSAT/NMSQT are the same test, offered at different times of year and have these benefits in common:

- They are both great practice for the SAT because they test the same skills and knowledge as the SAT in a way that makes sense for your grade level.
- They both provide score reports you can use to personalize your Khan
- Academy® SAT practice
- These score reports also list which AP courses you should check out

#### **PSAT/NMSQT**

#### -Administered to ALL 11th grade students in October at WLC

National Merit® Scholarship Program is an academic competition for recognition and scholarships that began in 1955. High school students enter the National Merit Program by taking the Preliminary SAT/National Merit Scholarship Qualifying Test, a test which serves as an initial screen of approximately 1.5 million entrants each year, and by meeting published program entry and participation requirements.

Each October the PSAT is administered to all WLC juniors. The PSAT/NMSQT has been redesigned to mirror the redesigned SAT®. Participation in the PSAT/NMSQT is an important step in preparing for college.

Students can prepare for this exam by taking the PSAT/NMSQT Practice Test. Khan Academy®, partnering with College Board released free interactive practice programs to support students to familiarize themselves with the redesigned exam. The customized test preparation offers skill based videos to support the redesigned key changes for students who take the PSAT/NMSQT. When students get their test results, they can connect their College Board and Khan Academy accounts to get free personalized SAT study recommendations.

#### SAT

#### -Administered to ALL 11th grade students in the Spring at WLC

#### -Available to 11th and 12th grade students, please visit www.collegeboard.org

The SAT is a globally recognized college admission test that lets you show colleges what you know and how well you can apply that knowledge. It tests your knowledge of reading, writing and math, subjects that are taught every day in high school classrooms. Almost all colleges and universities use the SAT to make admission decisions.

Taking the SAT is the first step in finding the right college for you — the place where you can further develop your skills and pursue your passions. But SAT scores are just one of many factors that colleges consider when making their admission decisions. High school grades are also very important. In fact, the combination of high school grades and SAT scores is the best predictor of your academic success in college.

The SATs are offered several times a year. Most students take the SAT for the first time during the spring of their junior year and a second time during the fall of their senior year.

By state law, all juniors at WLC High School are required to take the reading, writing and mathematics portions of the SAT at WLC during the school day in April with a make-up day in April. The results of these SATs are used to evaluate WLC School District, and in most cases can be used by the student in the college application process.

#### ACT

#### - Available to 11th and 12th grade students, please visit www.actstudent.org

The ACT is accepted by all 4-year colleges and universities in the United States.

The ACT multiple-choice tests are based on what you're learning.

The ACT is not an aptitude or an IQ test. The test questions on the ACT are directly related to what you have learned in your high school courses in English, mathematics, reading, and science. Every day you attend class you are preparing for the ACT. The harder you work in school, the more prepared you will be for the test.

There are many ways to prepare for the ACT.

Taking challenging courses in high school is the best way to prepare, but ACT also offers a number of test preparation options including free online practice tests, testing tips for each subject area tested, and the free student booklet Preparing for the ACT. This booklet includes complete practice tests (with a sample writing prompt and example essays). ACT Online  $Prep^{TM}$ , the only online test preparation program developed by ACT, is another tool to help you be ready for test day.

Your ACT score is based only on what you know.

The ACT is the only national college admission test based on the number of correct answers—you are not penalized for guessing.

#### Optional Writing Test.

Because not all colleges require a writing test for admission, ACT offers you the choice of whether or not you want to spend the extra time and money taking the writing test. Writing is an important skill for college and work, but schools use different methods to measure your writing skills.

#### ACCUPLACER TEST

ACCUPLACER is an integrated system of computer-adaptive assessments designed to evaluate students' skills in reading, writing, and mathematics. For over 30 years, ACCUPLACER has been used successfully to assess student preparedness for introductory credit-bearing college courses. ACCUPLACER delivers immediate and precise results, offering both placement and diagnostic tests, to support intervention and help answer the challenges of accurate placement and remediation.

Educators, counselors, and testing directors rely on ACCUPLACER's quality and validity as they advise and support students in their academic and career journeys. Over 8.5 million ACCUPLACER tests are administered each year in more than 2,000 secondary and postsecondary institutions. ACCUPLACER connects over 2.5 million students to college and career opportunities.

If you are interested in ACCUPLACER and need to create an ACCUPLACER account, complete a new institution registration form at <u>accuplacer.org</u>.

#### **ASVAB CAREER EXPLORATION PROGRAM**

All grade 10 student take ASVAB the ASVAB CEP is a complete career planning program. Students take the ASVAB at no cost and no commitment to military service. The ASVAB CEP also provides an interest assessment and planning tools to help young adults explore career field entry requirements and various career paths, both military and civilian.

ASVAB CEP test results are sent to schools so participants can explore career options with counselors. The scores report how the student performed on each subtest area, and how their scores compare with others who took the test. Participants receive three composite scores in verbal, math and science/technical skills used for career exploration, and the AFQT score is also reported.

**Good to Know:** ASVAB CEP participants who want to enlist in the Military can access their AFQT at asvabprogram.com. They can also access their Service-specific line scores at careersinthemilitary.com.

#### BEGINNING WITH THE CLASS OF 2019 - ONE ADDITIONAL UNIT OF MATH IN 12TH GRADE

WLC requires that every student take three years of math plus one additional year of math or a non-math class in which mathematics is significantly applied during their 4 years in high school. According to ED 306.27, a student can meet the requirement "by satisfactorily completing a minimum of 4 courses in mathematics or by satisfactorily completing a minimum of 3 mathematics courses, and one non-mathematic content area course in which mathematics knowledge and skills are embedded and applied, as may be approved by the school board."

Non-math department courses that meet the fourth year math requirement are designated with the  $\sqrt{x}$  symbol at the beginning of the course title.

Accounting I - U.A.

Accounting I & II - Milford - U.A. -MHSATC

Advanced Construction Technology – *U.A. -MHSATC* 

Advanced Engineering Design – *U.A. -MHSATC* Advanced Precision Machining – *U.A. -MHSATC* 

Adventures in Computer Art -- U.A. -MHSATC

Algebra II

All That is 2-D – *U.A.* Applied Algebra II

**AP Calculus** 

AP Computer Science – *U.A.* 

AP Physics C

Around The House - U.A.

Astronomy

Automotive Service Technology – *U.A.-MRHS* Biotechnology/Genetics – *SCI-MHSATC* 

Business Math - VHS

Chemistry - SCI

Computer Integrated Manufacturing – *U.A. -MHSATC* 

Computer Science Principles – *U.A. -MHSATC* Construction Technology – *U.A. -MHSATC* 

Consumer Math Creative Arts – *U.A.* Creative Cooking – *U.A.* 

Culinary Arts I & II – U.A. -MHSATC

Data Structure – *U.A. -MHSATC* 

Engineering Design – *U.A. -MHSATC* Environmental Conservation - *Science* 

Everything Else is 3-D – *U.A.* 

Forensic Science- *U.A.* 

For the Love of Leftovers - *U.A.* 

Honors Calculus - SCI Honors Chemistry- SCI

Honors Data Structure – U.A. -MHSATC

Honors Java Programming – U.A.

Honors Pre-Calculus Intro to Statistics

Introduction to Accounting – *U.A.* 

Life Skills - U.A.

Mechatronics Precision Machining-*U.A.-MHSATC* 

Microbiology Principles & Practices – *SCI– U.A.-MHSATC* Personal Finance & Career Management –*U.A.-MHSATC* 

Physics - *SCI* Pre-Calculus

Precision Machining – U.A. -MHSATC

Principles of Business & Entrepreneurship – *U.A.* 

Programming Fundamentals – *U.A.* Residential Finish Carpentry – *U.A.* School Store Experience – *U.A.* 

3D Art – *U.A.* 2D Art – *U.A.* 

Within the context of the courses listed above, students use and apply math concepts and procedures accurately to solve real world problems.

State of New Hampshire Department of Education 4th Unit of Math Requirement.

Ed 306.27 Students shall engage with and apply English and mathematics graduation competencies during every year they are enrolled in high school even if graduation competencies for English and mathematics have been demonstrated. Such engagement may occur through integration of these graduation competencies in courses focused on content areas other than English or mathematics. Such engagement shall support students to be college and career ready in mathematics and English/Language Arts.

#### NH DOE comment:

The intent of this section is to ensure that students are engaged in English Language Arts and Mathematics competencies throughout their high school education, although the credit requirement for ELA is 4 credits and Math is 3 credits.

## 2020-2021 COURSE OFFERINGS

#### **ENGLISH / LANGUAGE ARTS**

#### 4 English Credits are required for Graduation, as well as meeting Competencies

11th Grade

10<sup>th</sup> Grade

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade				
<b>World Literature</b>	The Individual in Society	American Literature	British Literature				
Honors	Honors The Individual in	Honors American					
<b>World Literature</b>	Society	Literature					
Creative Writing  Drama							
Say It and Debate It!							
	•						
	Science Fiction	a & rantasy					
	AP English Literature & Composition						
		Honors College Com	position 101 (RS)				
		Honors College Com					
	Horror A-Z						
Yearbook (11th Grade w/permission)							
	Yearbook & Journalism I & II						
		rear book & jou	i iiaiisiii i & ii				
to the reader  Research Students perform  Visual Literacy Students cr meets ethic	research effectively, adapting skil research effectively, adapting skil reate, identify, and use visual mate codes of publication, including cost organize and arrange yearbook ofter.  Students identify and use a variancluding advertising.	ls and collection methods for jourial for the yearbook that serves pyright ontent which is accessible to an	urnalistic standards the purpose intended and d aesthetically pleasing to				
World Literature  1.0 Credit/Year Long Requirement Grade 9  This course is designed to focus on the literature of various societies throughout the world, from classical times through to the modern era. Materials include novels and other selected readings for the various units of study. Student evaluation is based on various summative and formative assessments, including research.							
World Literature Honors This course is designed for college bound students who enjoy extensive reading and writing. Students will demonstrate the ability to effectively analyze world literature of various societies,							

#### The Individual in Society

Grade 8 teacher recommendation

Completion of summer reading and

1.0 Credit/Year Long Requirement Grade10

Requirement

honors criteria

Grade 9

This course meets the requirement for  $10^{\rm th}$  Grade English for graduation. Students analyze literature to explore their relationship with the world around them, including themes of race, war, and government. Students are required to read, write, and participate in class discussions. In addition to literature, students study grammar, complete research, and work on vocabulary development.

from classical times through to the modern era. Materials include

novels, selected readings, and various media appropriate to the themes. Student evaluation is based on various summative and

formative assessments, including research.

#### The Individual in Society

Honors 1.0 Credit/Year Long Requirement Grade 10

Grade 9 teacher recommendation, Completion of summer reading and honors criteria This course meets the requirement for  $10^{\rm th}$  Grade English for graduation and is preparation for four-year colleges. Successful and motivated students possess the ability to read well, complete work independently, and participate in class discussions, surrounding real world applications. Students analyze literature to explore their relationship with the world around them. In addition to literature, students study grammar, writing, complete research, vocabulary, and presentation skills and informational texts.

#### **American Literature**

1.0 Credit/Year Long Requirement Grade 11 This course is a chronological survey of American literature, non-fiction essays, and foundational documents, which provides students the opportunity to learn about how different periods and groups, such as the Puritans, Native Americans, the Romantics, the Depression, etc. have influenced and been influenced by the history, values, and culture of our country. The class incorporates reading, viewing, discussion, presentations, writing, and research.

#### **American Literature**

Honors 1.0 Credit/Year Long Requirement Grade 11

Grade 10 teacher recommendation, Completion of summer reading and honors criteria This course is for top level, highly motivated students. It is a chronological survey of American literature and non-fiction essays and foundational documents, provides students the opportunity to learn how different periods and groups, such as the Puritans, Native Americans, the Romantics, the Depression, etc. have influenced and been influenced by the history, values, and culture of our country. The class incorporates extensive reading, viewing, discussion, presentations, writing, and research.

#### Seniors **MAY** choose from the following options:

English 12 - British Literature OR English 12 - AP English Literature & Composition OR  $\underline{2}$  electives to fulfill their senior English requirement- This choice entails work beyond the level of Sophomore or Junior students taking the same elective.

Seniors may also choose any English Elective(s) in addition to this requirement

#### **British Literature**

1.0 Credit/Year Long Grade 12

College credit may be available.

This course is designed for students interested in furthering their education at a four year university. It will combine a study of British Literature from Anglo-Saxon times to Modern Age. Students in this course are encouraged to improve their close reading, writing, vocabulary and critical thinking skills. Evaluation is based on tests, quizzes, written assignments, research, and individual and collaborative projects.

#### **College Composition 101**

Honors Elective 0.5 Credit/Semester/ Running Start Grade 12

4.0 Running Start College Credits are available through Nashua Community College. There is a fee of \$150.00, plus cost for mandatory textbook.

In this course, students learn to write clearly and effectively for defined audiences through a variety of strategies. Emphasis is on the writing process from pre-writing through drafting, revising and editing. Students gain confidence through learning the basic principles of effective expository composition and the application of these principles in writing essays and documented papers. Students become aware of the variety of strategies, behaviors, habits and attitudes, and choose those that help them improve. Students will also read and examine a wide variety of writers and writing styles.

## **College Composition 102: Writing About Literature**

Honors Elective 0.5 Credit/Semester/ Running Start Grade 12 Building upon skills learned in College Composition 101 this writing and literacy course further explores the dimensions of writing based on selected readings that explore relevant themes and issues in today's world. Emphasis is placed on expository disciplines. The objective of the course is to enhance the depth and quality of students' written expression through sustained

4.0 Running Start College Credits are available through Nashua Community College. There is a fee of \$150.00, plus cost for mandatory textbook.	engagement in the semester theme. The student will practice writing about that theme for various purposes and audiences with systematic feedback from peers and the instructor. The course employs a workshop approach that incorporates critical reading, discussion, and a series of intense writing activities including analysis of rhetorical strategies used by other writers, and reading and responding to the work of others. Working in small groups, students will develop original ideas about the semester theme through active discussion and critique.
English Literature & Composition Advanced Placement 1.0 Credit/Year Long Grade 12  Grade 11 teacher recommendation, Completion of summer reading and AP criteria  College credit may be available.	This course is designed for top level college bound students. It combines a comprehensive survey of classic and modern literature. Students study the novel, survey drama, and critically analyze short stories, poems, and essays. Students will deepen their understanding of a work's structure, style, and themes by extensive reading, discussing, and writing. Evaluation is based on written assignments, projects, and class discussions. Students are expected to take the AP Exam administered in May.
Creative Writing 0.5 Credit/Semester Elective Grade 9-12	In Creative Writing, students will explore various types of writing (narrative, descriptive, dialogue) with the ultimate goal of writing short stories. Poetry and one-act plays will also be studied and written. Multiple genres will be explored in each style of writing.
Horror A-Z 0.5 Credit/Semester Elective Grade 11-12	Why is the horror genre dynamic yet misunderstood? Why are gothic tales dark yet romantic? The literary genre known as "horror" has evolved since it first began. At the very core, the genre was designed to instill terror in people. In this course students will read, watch, write and analyze classic, modern, and contemporary short stories and works in visual media, with an emphasis on the historical development of the horror and gothic genre. Why does this genre attract so many readers and viewers? Attention will be given to relevant local, social, and historical true horror stories.
Say It and Debate It! 0.5 Credit/Semester Elective Grade 9-12	Do you like to defend your point of view? Would you like to be a better presenter or to do well in an interview? This class is an introduction to the skills of public speaking and debate. In a safe atmosphere students learn to enhance their public speaking skills for interviews, the classroom, the workplace, and for special events. Activities include speeches, debates, interviews, TED Talks, film, understanding mass media, and classroom exercises.
Science Fiction & Fantasy 0.5 Credit/Semester Elective Grade 9-12	In this survey course, students will study the works of contemporary science fiction and fantasy writers. Students will examine themes such as morality, survival, and innovation, by studying topics such as utopias, dystopias, clones, biological warfare, and the apocalypse. Students will be expected to read and write extensively, as well as to participate in class discussions.
<b>Drama</b> 0.5 Credit Elective Grade 9-12	Drama is an introduction to theatrical arts through reading, watching and acting. In this class, students will become familiar with the history of theatre and will read, watch and analyze a variety of significant plays through creative activities and approaches. In addition, students will participate in an array of different theatre exercises and games that will target the meaning of plays, as well as voice, speech and movement exercises that are intended to support and enhance the play.

#### Yearbook and Journalism I

0.5 Credit/Semester English Elective Credit. Grade 11-12

Grade 11 students must obtain permission from course teacher

Cap of 12 students

This course is designed to provide students with a collaborative environment to produce the school's annual yearbook. Students will learn the basics of desktop publishing, the basic elements of photography, and how to market the yearbook to the WLC community. Students take part in all aspects of production of the yearbook, including creating a theme, designing the cover and layout, and writing articles. Students will be required to make and meet weekly production goals.

English Credit option – English credit can be earned with additional, independent, reading and writing requirements.

In addition to the standard English competencies, the Yearbook Class also has: visual literacy, advertising, media and publishing competencies.

#### Yearbook and Journalism II

0.5 Credit/Semester Elective Grade 11-12

Grade 11 students must obtain permission from course teacher

Cap of 12 students

This course is designed to provide students with a collaborative environment to produce the school's annual yearbook. Students will learn the basics of desktop publishing, the basic elements of photography, and how to market the yearbook to the WLC community. Students take part in all aspects of production of the yearbook, including creating a theme, designing the cover and layout, and writing articles. Students will be required to make and meet weekly production goals. Students will also learn the fundamentals of publishing within journalism—including ethics, news literacy, multimedia usage, and reporting. Students will be responsible for researching current events, writing coherent articles, including modern media, and photography.

In addition to the standard English competencies, the Yearbook Class also has: visual literacy, advertising, media and publishing competencies

#### **MATH**

#### 3 Math Credits are required for Graduation including 1.0 Credit of Basic Algebra A & 1.0 Credit of Basic Algebra B or 1.0 Credit of Algebra I/Honors Algebra I.

\*Beginning with the class of 2019 students will need 4 years of math to earn a high school diploma. The fourth year may be earned outside of the math department via interdisciplinary coursework during senior year. Classes that are designated with \* will be accepted as a math unit.

The Department Head must approve all Math placements to ensure that each student is provided the opportunity to receive the most appropriate learning experience for his/her background and ability.

The following chart shows the possibilities for how a student could progress through the sequence of high school mathematics courses.

\*\*There are two paths students can take to be eligible for AP Calculus A/B their senior year:
(a) Complete Honors Algebra 1 in Grade 8, followed by Geometry, Algebra II, Precalculus in Grades 9-11
(b) Complete Algebra 1in Grade 9, Geometry AND Algebra II in Grade 10, and Precalculus in Grade 11

8 <sup>th</sup> Grade	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
			The Power of Math	Consumer Math
8 <sup>th</sup> Grade Math	Basic Algebra A	Basic Algebra B		The Power of Math
			Geometry	Algebra II
				Pre-Calculus
8 <sup>th</sup> Grade Math	Algebra I	Geometry	Algebra II	Consumer Math
				Statistics I
	Honors Algebra I	Honors Geometry	Honors Algebra II	Honors Pre-Calculus
Oth Carda Made		Geometry		Consumer Math
8 <sup>th</sup> Grade Math			Algebra II	Statistics I
				Pre-Calculus
	Honors Geometry	Honors Algebra II	Honors Pre-Calculus	AP Calculus AB
Honors Algebra I		Algebra II	Consumer Math	Consumer Math
	Geometry		Statistics I	Statistics I
			Pre-Calculus	Pre-Calculus

#### Basic Algebra A

1.0 Credit/Year Long Requirement Grade 9

Teacher Recommendation

A scientific calculator is strongly recommended for this course.

Basic Algebra A is part one of the two year Algebra 1 program that provides time to practice, review, and master the concepts of Algebra 1. In part one, students will work with algebraic and numeric expressions, properties of real numbers including integers, distributive property, and square roots, absolute value, solving linear equations and inequalities, ratio and proportions, and linear functions. All of the topics are presented in the context of real world situations, graphing, and hands-on problems/activities

#### Basic Algebra B

1.0 Credit/Year Long Requirement Grade 10

Successful completion of Basic Algebra A A graphing calculator is recommended for this course. Basic Algebra B is the second part of the two year Algebra 1 program. In this part, students will use and strengthen the skills they mastered in part one to work with linear inequalities, systems of linear equations and inequalities, quadratic equations/functions and exponential equations/functions. All of the topics are presented in the context of real world situations, graphing, and hands-on problems/activities.

#### Algebra I

1.0 Credit/Year Long Requirement Grade 9

Teacher recommendation and/or successful completion of 8th grade math.

A TI-83 Plus (or higher) graphing calculator is recommended for this course.

Algebra 1 is the first in a series of courses taken by students who plan to prepare themselves for two or four-year colleges. Students will work with algebraic and numeric expressions, properties of real numbers including integers, distributive property, and square roots, absolute value, solving linear equations and inequalities, ratio and proportions, and linear functions. Students will solve and graph linear equations and inequalities, exponents, polynomials, and quadratic equations and functions. Students will also be introduced to univariate and bivariate data analysis as well as the basic concepts of probability.

#### Algebra I

Honors 1.0 Credit/Year Long Requirement Grade 8-9

Grade 8 or Grade 9 with teacher/math placement committee recommendation.

A summer assignment may be required for this course.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course.

Honors Algebra 1 is the first in a series of courses taken by students who plan to prepare themselves for competitive four-year colleges. It is the first course in the Honors Math curriculum and may be taken in either 8th grade or 9th grade with teacher permission. Students will continue to grow their math skills through work with a focus on linear and quadratic equations and functions. Students will also be introduced to univariate and bivariate data analysis as well as the basic concepts of probability. The graphing calculator and graphing computer software will be used extensively in the course to extend and apply all of these concepts.

#### Geometry

1.0 Credit/Year Long Requirement Grade 10-11

Teacher recommendation and successful completion of Algebra 1.

A scientific calculator a TI-83 Plus (or higher) graphing calculator, protractor and compass are recommended for this course.

Geometry is the second course in the series of courses intended for students who plan to prepare themselves for two year or four year colleges. The course is designed to give the student a more complete understanding of lines, angles, polygons, and circles, their relationships and their properties, as well as areas of 2-dimensional figures and surface area and volume of 3-dimensional shapes. Students will apply basic logic skills to the principles of geometric proof, and will build on their algebra skills in connection with geometric relationships both on and off the coordinate plane.

#### **Geometry**

Honors 1.0 Credit/Year Long Requirement Grade 9-10

Teacher recommendation and successful completion of Honors Algebra 1.

A summer assignment may be required for this course.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course.

Honors Geometry is the second course in the series of courses taken by students who plan to prepare themselves for competitive four-year colleges. The course is designed to give the student a more formal understanding of lines, angles, polygons, and circles, their relationships and their properties, as well as areas of 2-dimensional figures and surface area and volume of 3-dimensional shapes. Students will "learn the language" of geometry and apply logical reasoning strategies to the principles of geometric proof; they will build on their algebra skills in connection with geometric relationships both on and off the coordinate plane, including word problem applications. Students will also construct accurate representations of geometric figures using various methods.

## √x The Power of Math: Quantitative Reasoning

1.0 Credit/Year Long Elective Grade 11-12

Successful completion of at least 2 high school mathematics credits.

A scientific calculator is recommended for this course.

Quantitative Reasoning is designed to expose the student to a wide range of general mathematics, problem solving and critical thinking skills, along with the use of technology, will be emphasized and reinforced throughout the course as the student becomes actively involved in solving applied problems. Topics included: Number Theory and Systems, Functions and Modeling, Finance, Geometry/measurement and Basic Right Triangle Trigonometry, Probability and Statistics, and selected subtopics. The scientific calculator and various web-based applications will be used extensively in this class.

#### $\sqrt{x}$ Algebra II

1.0 Credit/Year Long Requirement Grade 11-12

Teacher recommendation and successful completion of Geometry.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course

Algebra II continues the series of courses for students who plan to prepare themselves for two year or four year colleges. In this course, students will develop the algebraic skills needed in higher mathematics. They will recognize algebra as the study of the structure of the system of numbers including complex numbers. Students will extend their skills in operating with different types of functions, including linear, quadratic, polynomial, exponential and logarithmic functions. Other topics such as matrices and linear programming may be covered as time permits.

#### $\sqrt{x}$ Algebra II

Honors 1.0 Credit/Year Long Requirement Grade 10-12

Teacher recommendation and successful completion of Honors Geometry.

A summer assignment may be required for this course.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course.

Honors Algebra II is the third course in the honors series of courses taken by students who plan to prepare themselves for competitive four-year colleges. In this course, students will develop the algebraic skills needed in higher mathematics. They will recognize algebra as the study of the structure of the system of numbers including complex numbers. Students will extend their skills in operating with different types of functions, including linear, quadratic, polynomial, exponential and logarithmic functions. Other topics such as matrices and linear programming may be covered as time permits.

#### $\sqrt{x}$ Consumer Mathematics

0.5 Credit/Semester Elective Grade 11-12

Successful completion of at least two high school mathematics credits.

Consumer Mathematics is designed for students with good basic computational skills and a desire to learn how to apply these skills to practical problems confronting the intelligent consumer. Students will understand and exercise consumer choices, including personal income, savings and checking accounts, loans and other types of credit (including the costs of housing, transportation, etc.),

A scientific calculator is recommended for this course.

personal budgeting, income tax preparation, insurance and investments.

#### $\sqrt{x}$ Statistics I

Honors 0.5 Credit/Semester Grade 11-12

Successful completion of Algebra II

A graphing calculator is strongly recommended for this course.

Introduction to Statistics is a course for any student interested in careers in business, social sciences, or any math/science related field. The course is designed to show the student how to understand and interpret statistical results and data more accurately. Topics include scales of measurement, random sampling, graphs and tables, measures of central tendency, probability and probability distributions, confidence interval, error and sample size estimation, hypothesis testing, linear correlation, regression analysis, and prediction. The graphing calculator will be used extensively in this course.

#### $\sqrt{x}$ Pre-Calculus

Honors
1.0 Credit /Year Long

Elective Grade 11-12

Teacher recommendation and successful completion of Honors Algebra II.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course.

Pre-Calculus is designed for the student who desires preparation for studies in college calculus. This course will provide the student with a solid understanding of the trigonometric ratios from both a triangle and a function perspective; the student will relate the graphs to the properties of the ratios, solve real-world problems that apply these ratios, and develop and apply identities that relate the trigonometric functions to each other. Students will also work with various other function types, including polynomial, rational, radical, exponential and logarithmic expressions. Students will develop and apply concepts related to vectors and parametric equations; as time permits, they will explore and apply the basic principles of continuity, limits, and derivatives.

#### $\sqrt{x}$ Pre-Calculus

1.0 Credit/Year Long

Elective Grade 11-12

Teacher recommendation and successful completion of Algebra II.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course.

Pre-Calculus is designed for the student who desires preparation for studies in college calculus. This course will provide the student with a solid understanding of the trigonometric ratios from both a triangle and a function perspective; the student will relate the graphs to the properties of the ratios, solve real-world problems that apply these ratios, and develop and apply identities that relate the trigonometric functions to each other. Students will also work with various other function types, including polynomial, rational, radical, exponential and logarithmic expressions. Students will develop and apply concepts related to vectors and parametric equations.

#### $\sqrt{x}$ AP Calculus AB

Honors 1.0 Credit/Year Long Grade 12

Teacher recommendation and successful completion of Honors Pre-Calculus.

A TI-83 Plus (or higher) graphing calculator is strongly recommended for this course.

AP Calculus AB - I is the first semester of a 2 semester course that is designed to give the student a solid foundation in the concepts of college calculus. Students will develop and apply concepts related to limits, neighborhoods, and continuity; derivatives and techniques of differentiation; applications of derivatives both with and without the graphic calculator.

#### **SCIENCE**

#### 3 Credits of Science are required for Graduation

9th Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade		
Integrated Science (Lab)	Biology (Lab)				
Honors Integrated Science (Lab)	Honors Biology (Lab)				
$\sqrt{x}$ Engineering Design & Problem Solving					
	$\sqrt{x}$ Environmental (	Conservation (Lab)			
		Forensic Science	2		
		App	plied Physics		
		Astronomy (Lab)			
		Huma	n Body Systems		
		AP Envi	ironmental Science		
		🐺 Basic Human Anat	omy & Physiology (Lab) - (RS)		
		$\sqrt{x}$	Chemistry (Lab)		
		√x Hon	ors Chemistry(Lab)		
		√∝Ho	nors Physics (Lab)		
		Milford High School & Applied Technology Center			
			hnology Program- y Principles & Practices (Lab)		
			chnology/Genetics (Lab)		

#### **Integrated Science**

1.0 Credit/Year Long Requirement Grade 9 This course is designed to develop a students' understanding of Earth and Space and Physical Science concepts. Students will gain mastery of relevant science topics through inquiry based activities, reading passages, lectures and videos, and summative projects. Students will develop an awareness of the importance of scientific principles in everyday life and will develop critical thinking skills essential in science and in life. By the end of this course, students will be able to create physical and conceptual models describe the process governing the formation, evolution and workings of the universe and Earth's place in it. Demonstrate an understanding of the forces and motions on Earth and demonstrate an understanding of human impact on Earth's systems.

#### **Integrated Science**

Honors 1.0 Credit/Year Long Grade 9

Middle School Math and Science Teacher Recommendation, completion of summer work and honors criteria This course is designed to develop a students' understanding of Earth and Space and Physical Science concepts with an emphasis on mathematics and computational thinking. Students will gain mastery of relevant science topics through inquiry based activities, reading passages, lectures and videos, and summative projects. Students will develop an awareness of the importance of scientific principles in everyday life and will develop critical thinking skills essential in science and in life. By the end of this course, students will be able to create physical and conceptual models describe the process governing the formation, evolution and workings of the universe and Earth's place in it; demonstrate an understanding of the forces and motions on Earth and demonstrate an understanding of human impact on Earth's systems.

#### **Engineering Design & Problem Solving** This course emphasizes solving engineering problems, from well-0.5 Credit defined problems to open ended problems to real world Elective applications. Students will apply critical thinking skills to justify a Grade 9-12 solution from multiple design options. Students will use the engineering design process to investigate, design, plan, create and evaluate solutions. By the end of this course students will be able to apply multiple tools to produce and present working drawings. solid model renderings, and prototypes to design for people's needs, values, and social patterns, analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants and analyze a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints. including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts. **Forensic Science** Forensic science is course rich in inquiry based exploration and lab investigation which applies many disciplines of scientific study 0.5 Credit/Semester such as biology/anatomy, chemistry, and physics to solving crimes. Elective Grade 10-12 This course uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection. and scientific procedures used to solve crimes. Using inquiry based scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, forensic odontology, handwriting analysis and forgery, trace analysis, ballistics, DNA fingerprinting and blood spatter analysis. **Biology** This course introduces students to many of the fundamental Requirement biological concepts thus increasing the students' understanding of 1.0 Credit/Year Long themselves as living organisms. Main topics include- unity and Grade 10 diversity among life forms. Structures and Processes, Heredity and Evolution. Students will through investigations and activities explore the themes and concepts. Students will be able to understand that science plays a significant role in our everyday lives. **Honors Biology** Students will engage in learning topics in Biology in greater depth and application. Through hands-on activities, problem solving and Requirement 1.0 Credit/Year Long scientific reading and writing students will gain understanding of Structures and Processes, DNA, Genetics and Heredity, Unity and Grade 10 Diversity of life forms and Natural Selection and Evolution. Honors Teacher recommendation B or better in student will problem solve creatively, study independently and communicate effectively for formative and summative Integrated Science assessments. Astronomy (LAB) This course is an introduction to modern astronomy. The course 0.5 Credit/Semester adopts a conceptual approach to understand the nature of science and physics concepts through the eyes of astronomy. Topics will Elective Grade 11-12 include the motion of the night sky, the nature of light, stars and stellar evolution, black holes, the Big Bang Theory, universal expansion, and Einstein's theory of relativity. Methods of assessment will include tests, projects, computer simulations,

laboratory experiments and activities.

#### **Basic Human Anatomy & Physiology** 1.0 credit/Year Long /Running Start Elective Grade 11-12

4.0 Running Start College Credits are available through Nashua Community College. There is a fee of \$150.00

Successful completion of Honors Biology or Biology with a grade of C +

This is a year-long course designed for students interested in learning about the human body and interested in pursuing a career in health- related field. Students will explore the systems of the human body through lectures, lab models and dissection of various organs such as heart, brain, eyes and kidneys. To be successful a student will demonstrate effective time management and good study skills. Content addressed will include- orientation of the human body, histology and various complex systems of the human body.

#### $\sqrt{x}$ Chemistry

1.0 Credit/Year Long Elective Grade 11-12

Successful completion of Integrated Science and Algebra I with a grade of C.

Chemistry is designed to introduce the college career student to the physical and chemical properties of matter. This course requires good Algebra 1 skills to interpret laboratory work and to perform stoichiometric and gas law calculations. Students will be introduced to laboratory techniques and safety, unique to the chemistry lab. They will become familiar with elements and compounds, their properties and how they react with each other.

Topics covered include: measurement and dimensional analysis. atomic structure through the Bohr model, and a simplified introduction to the quantum model, periodic law and periodic trends, the mole, chemical bonding, notation and naming, stoichiometry, kinetic theory and the gas laws, and acid/base chemistry. Laboratory work is an integral part of the course. Students will be evaluated on tests and guizzes, laboratory work, class work and reports.

#### $\sqrt{x}$ Chemistry

Honors Credit/Year Long Elective Grade 11-12

Teacher recommendation and successful completion of Honors Algebra I with a grade of B and summer assignment(s).

The course is designed as a lab course for college bound students who plan to major in science or a related field. Students taking this course should be highly motivated and able to work independently. Significant homework and reading will be required and students must have a strong math background.

Topics will include lab safety, measurement and dimensional analysis, atomic structure through the Bohr model, and a simplified introduction to the quantum model, periodic law and periodic trends, the mole, chemical bonding, notation and naming, stoichiometry, kinetic theory and the gas laws, and acid/base chemistry. Every unit will include a hands-on lab activity. The student will keep a science notebook that will include worksheets. labs, diagrams, news articles and notes.

#### $\sqrt{x}$ Environmental Science 0.5 Credit/Semester

Elective Grade 9-12

This course will provide an understanding of the biodiversity of our local ecosystems and what we can do to conserve them for future generations. Topics will include understanding the human generated environmental impacts with a focus on the Nature of Science and learn proper field techniques for collecting data. By the end of this course, students will be able to create physical and conceptual models of Earth's interrelated systems (geosphere, hydrosphere, biosphere and atmosphere), demonstrate understanding of the human impact on Earth's systems and analyze the values and beliefs inherent in environmental decision-making and the decisions of private and governmental decisions on the management of natural resources in the environment.

#### $\sqrt{x}$ Physics Honors

Physics is for the student aiming for a career in sciences, engineering, and some areas of medicine; for example, physical

1.0 Credit/Year Long Elective Grade 11-12 ( Prerequisite of B+ in Algebra II)	therapy. Students who are considering a 2-year program in a technical area should also consider this course. Topics studied include measurement, vectors and vector analysis, the laws of motion and their application, momentum, forces, work and energy, heat, waves, light and optics, electricity and magnetism. Modern physics and other topics will be studied as time allows. Laboratory work is an integral part of the course. Students will be evaluated on tests, quizzes, laboratory work, class work and reports.
AP Environmental Science 1.0 Credit/Year Long Elective Grade 11-12  Successful completion of Honors Physical Science, Honors Biology and Honors Algebra I	The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them.  Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. Students will take the AP Test in May.
Human Body Systems 1.0 Credit/Year Long Elective Grade 11-12  Successful completion of Biology	This course is the perfect foundation for students wanting to explore the inner workings of the human body and focuses on anatomical and medical terminology. Students will dissect.  Observe, and have hands on experience seeing what the various body systems look like in an actual specimen. Students will engage in the study of the processes, structures and interactions of the human body. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense and protection
Applied Physics 1.0 Credit/Year Long Elective Grade 11-12	This course will focus on the basic principles of physics to solve real-world problems in various areas such as inventions, technology, and medical science. Physics is useful in many jobrelated areas. If you are interested in how things work. Then you may be interested in this elective science course

#### **SOCIAL STUDIES**

#### 3 Credits of Social Studies are required for Graduation

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
World History	U.S. History	U.S. Government & Economics	
Honors World History	Honors U.S. History	Honors U.S. Government & Economics	
AP U.S. History			

# American Military History AP World History Crime & Punishment Introduction to Genocidal Studies World War II

# Introduction to Philosophy & Ethics Psychology The Presidency

#### **World History**

1.0 Credit/Year Long Requirement Grade 9 This course is designed to focus on the social, economic, political, geographical and cultural aspects of various societies, from medieval times through to the modern era. Materials include various activities and selected readings for the various units of study. Student evaluation is based on research projects, oral and written assignments, periodic tests and quizzes, a research project and essays.

#### **World History**

Honors 1.0 Credit/Year Long Requirement Grade 9

Grade 8 teacher recommendation and successful completion of summer assignment(s).

This course is designed for students who have a strong aptitude for social studies and will focus on the social, economic, political, geographical and cultural aspects of various societies, from medieval times through to the modern era. Materials include various activities, selected readings and appropriate to the themes. Student evaluation is based on classroom participation, written and oral assignments, collaborative projects, periodic quizzes, a research project and document based essays.

#### **AP World History**

Honors 1.0 Credit/Year Long Requirement Grade 9-12

Grade 8 teacher recommendation and successful completion of summer assignment(s).

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge used in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course, along with consistent attention to contact among societies that form the core of world history as a field of study

In order to incorporate these facets of the APWH course, students will have a variety of assessments. This will include the incorporation of primary documents and their analysis. Also, several essays per

unit, and frequent Document Based Quizzes (DBQs) will be given. Quizzes in the style of the multiple-choice test, will be given in order to assess assigned reading in the textbook. Analysis of first hand documents will be executed in several ways. The most frequent style of analysis will be DBQ's. Other methods that will be used are graded discussions during which the instructor will pose open-ended questions and students will discuss the topic of the document with one another. Also, students will role-play from the different readings and re-enact the experiences of the people discussed.

#### **U.S. History**

1.0 Credit/Year Long Requirement Grade 10 U.S. History is designed to engage students in an intense examination of American history from the civil war to today. This course will focus on the economic, social, cultural, and political movements that have influenced the course of American history, while at the same time promoting an understanding of our changing role in world affairs. Materials will include various media, text and sources appropriate to the themes. Student evaluation is based on classroom participation, periodic quizzes, written and oral assignments, and research projects.

#### **U.S. History**

Honors 1.0 Credit/Year Long Requirement Grade 10

Grade 9 teacher recommendation and successful completion of summer assignment(s).

Honors U. S. History is designed for students who have a strong aptitude in Social Studies and a willingness to pursue the thematic study of U. S. History in depth and using a variety of methods. The basic text will serve as a student resource and will be supplemented by various assigned readings. A high degree of class participation will be expected of students. Oral and written assignments, position papers, and serious research will make up the basis of evaluation. Students should have strong reading and writing skills, and be capable of dealing with large amounts of material. Students should expect a course with strict standards. There is a summer reading component to this course.

#### **AP U.S. History**

Advanced Placement 1.0 Credit/Full Year Elective Grade 11-12

Teacher recommendation and successful completion of Honors U.S. History is required.

This is a college level history course designed to meet the needs of highly motivated students who have a strong interest and ability in history. The student is expected to read and analyze both primary and secondary source materials and to demonstrate the ability to interpret and evaluate these sources. The course is content driven with heavy emphasis on written critical analysis. Extensive reading writing and class discussions are integral components of the program. The course is organized into nine historical periods that run from the pre-colonial era to the present. The key concepts. supporting concepts, and historical developments that are required knowledge for each period are included. Students will develop historical thinking skills by investigating the past in ways that reflect the discipline of history, most particularly through the exploration and interpretation of a rich array of primary sources and secondary texts, and through the regular development of historical argumentation in writing.

The AP® program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical

scholarship. The course develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively.

#### **U.S. Government & Economics**

1.0 Credit/Year Long Requirement Grade 11 This survey course is designed as an introduction to the political and economic practices of the United States. The first semester is dedicated to the citizen's responsibilities as a member of a democratic society. Students will focus on the foundations of democracy and develop a critical understanding of the constitutional framework of the national government.

The second semester will focus on the fundamental principles of economics and the role this discipline has on the decision-making process of the individual. Students will focus on the function of supply and demand in the capitalist market system, macroeconomic theory, money and banking, and government's role creating fiscal and monetary policy.

#### **U.S. Government & Economics**

Honors 1.0 Credit/Year Long Requirement Grade 11

Grade 10 teacher recommendation and successful completion of summer assignment(s).

This course is designed as an intensive study of the both the political and economic institutions of the United States. The topics covered will parallel the non-honors version of the course, but will include elements of the AP United States Government and Politics course as well as the AP Macroeconomics course to create a rigorous curriculum in preparation for collegiate level learning. Case studies of historical and current issues are utilized to provide students an analytical perspective on the evolution of the United States government and economic foundation.

#### **American Military History**

0.5 Credit/Fall Semester Elective Grade 9-12 Military theorist Carl von Clausewitz wrote "War is not an independent phenomenon, but the continuation of politics by different means". American Military History is a survey course designed to show the failure of politics that leads this country into combat. The course will primarily examine the War of Independence, the Civil War, World War II and the Vietnam War, with other conflicts being studied based on the desired interest of the class. For each conflict that is studied, students will examine the different styles of warfare, the technology, and battles that changed the course of events for the United States. Students will develop an appreciation and understanding of why American soldiers volunteer to defend the nation in times of conflict.

#### **Introduction to Genocidal Studies**

0.5 Credit/Semester Elective Grade 9-12 How did the word "Genocide" enter the modern vernacular? Why was this word created to describe the most heinous acts committed against fellow human beings? This course will focus on the three iconic genocides which includes the Armenian Genocide, The Jewish Holocaust, and the Rwandan Genocide. Students will also reexamine historical events through the definitional lens of genocide to comprehend the atrocities of the past. Anyone interested in peace, human rights, and justice must examine what Joseph Conrad referred to as the "Heart of Darkness". It is only by confronting these events can the human race ensure they are never repeated. Student success in this course is will depend greatly on participation and reflection writing assignments. Given the graphic nature of this course, in both script and visual elements, parental permission is required to register.

#### **Crime and Punishment**

0.5 Credit/Semester

The subject matter introduced in this course includes a study of crime in America, criminal law, and court procedures. Time is also

Elective Grade 9-12	devoted to the study of our penal system. Students will learn about major Supreme Court decisions and other significant criminal cases in American society. This course also introduces students to civil law and includes topics such as civil rights and personal legal responsibilities. This includes the study of First Amendment rights, discrimination, rights in the workplace, and legal issues involving family, housing, consumers, and negligence. Projects, role-plays, movies, documentaries and mock trials are utilized to provide a better understanding of the legal process. Major assessments include: formal discussions, debates, case studies, research projects, role-play and mock trials.
Introduction to Philosophy & Ethics 0.5 Credit/Semester Elective Grade 10-12	Introduction to Philosophy and Ethics examines the history and various areas of philosophical study from the Ancient Greeks to modern times. The course will primarily examine the connections between human nature and the types of political philosophy that exist. This course will also focus on how philosophy and ethics affect our daily lives and why studying philosophy is important.
Psychology 0.5 Credit/Semester Elective Grade 10-12	This course is designed to introduce the principles and concepts of psychology and to provide an opportunity to gain some insight into themselves as individuals. The course uses experimentation and the Socratic method in a discussion framework, to gain an understanding of the basic psychological concepts. Student evaluation is based on class participation, review quizzes, contemporary psychological research assignments, a psychological experiment and a final exam. Students should expect a course with strict standards.
World War II 0.5 Credit/ Spring Semester Elective Grade 9-12	This seminar will examine the entire scope of the largest and deadliest conflict in the history of mankind. Students taking this course will be exposed to a more global view of World War II as compared to the Anglo-American presentation in US, World or American Military History courses. This allows for a more in-depth analysis of the Axis Powers, Soviet Union, China, and the Western Nations as whole. Topics will include diplomacy, grand strategy, military equipment, economics, and battle from the view of the common soldier. Outside readings will be required as well as a fully researched battle that will include a formal presentation.
The Presidency 0.5 Credit/ Fall Semester Elective Grade 10-12	The history of the Presidency of the United States cannot be told without the contributions of the State of New Hampshire. As the first primary state in the nomination process, the residents of the Granite State play an early critical role in deciding the next Commander and Chief and thus requires a firm understanding of the executive branch of government. This course is designed to take students beyond the topical information presented in the US Government & Economics course. Special attention will be focused on the relationship between President and Congress, the courts, and the federal bureaucracy as

well as the electoral process. Students will also be introduced into the political science discipline of international relations with a focus

on American foreign policy. Students who have not taken US Government & Economics will be required to complete a summer

assignment in preparation for this course.

# **WORLD LANGUAGES**

Most 4 year colleges require a minimum of 2 credits in a world language; many competitive colleges require 3 or 4 credits.

9th Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Spanish I	Spanish II	Spanish III	Spanish IV

#### Spanish I

1.0 Credit/Year Long Elective Grade 9-12 Students are introduced to the fundamentals of Spanish grammar and vocabulary through listening, speaking, reading, and writing in Spanish. Spoken language exercises are used extensively. An important part of the course is the study of the culture of the Hispanic world through the exploration of geography, history, holidays, cuisine, and the arts. Evaluation is based on the three world language competencies; production, comprehension and communication for summative assessments.

#### Spanish II

Credit/Year Long Elective Grade 9-11

Successful completion of Spanish I

It is recommended that students take Spanish II the year immediately following taking Spanish I Spanish II continues the development of listening, speaking, reading, and writing skills in the Spanish language with a continuation of the fundamentals of Spanish grammar. Hispanic culture is studied through selected readings, videos, and other media. The course continues the study of the cultures of the Hispanic world through the exploration of geography, history, holidays, cuisine, and the arts. , music, TV. Evaluation is based on the three world language competencies; production, comprehension and communication for summative assessments.

#### Spanish III

Credit/ Year Long Elective Grade 10-12

Successful completion of Spanish II

It is recommended that students take Spanish III the year immediately following taking Spanish II Spanish III continues the development of listening, speaking, reading, and writing skills in the Spanish language with a continuation of the fundamentals of Spanish grammar, as well as continued emphasis on Hispanic culture, studied through history, holidays, cuisine, and the arts. The use of the language as a tool for communication is stressed, and students are encouraged to converse in Spanish. Evaluation is based on the three world language competencies; production, comprehension and communication for summative assessments.

#### Spanish IV

Credit/ Year Long Elective Grade 11-12

Successful completion of Spanish III

It is recommended that students take Spanish IV the year immediately following taking Spanish III Spanish IV continues the study of the finer points of Spanish grammar, reinforced by authentic readings, as well as the continued study of Hispanic culture. The use of the language as a tool for communication is stressed, and students are expected to converse in Spanish. Evaluation is based on the three world language competencies; production, comprehension and communication for summative assessments.

## **ART & DESIGN**

# 1.5 Credits in Art, Music, Technical Education, or Family and Consumer Science are required for Graduation

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade		
$\sqrt{x}$ 2-D Art – Level 1					
	$\sqrt{x}$ 3-D Art – Level 1				
	Milford High School & A	pplied Technology Center			
		ts Program–			
	-	hotoshop			
		nation			
		c Design			
	Marketing I				
		Printing			
-Video Production Program-					
Video Production I					
$\sqrt{x}$ 2-D Art – Level 2					
$\sqrt{x}$ 3-D Art – Level 2					
Installation + Socially Engaged Art Combined: 2D, 3D, Video, and Social Experiences					
Communication Arts: Graphic Design Animation & Video					

Milford High School & Applied Technology Center

Video Production II

 $\sqrt{x}$  2-D Art – Level 3  $\sqrt{x}$  3-D Art – Level 3

# $\sqrt{x}$ 2D Art Level I (offered every semester)

0.5 Credit/Semester Elective Grade 9-12

Completion of this course serves as a prerequisite for 2D Art Level II and Level III.

#### 2D Art, Level 1 (offered every semester)

WLC students will have the opportunity to increase their understanding and appreciation of the arts through making, and responding to, two-dimensional visual images. Primary materials of this visual practice are traditional drawing pencils, charcoal, ink (pen, brush and other objects), and chalk pastels, and watercolor paints. Curriculum will explore styles of European and Western art history from Impressionism to Surrealism, while comparing and contrasting them to other global contemporary artists. Individual and group experiences will promote problem solving, creative thinking, and self-expression through artmaking and practices of *art criticism* (observing a work of art to examine the visual elements, analyze the parts and the entire piece of art, and interpret the artist's meaning).

#### $\sqrt{x}$ 2D Art Level II

0.5 Credit/Semester Elective Grade 10 -12

Completion of 2D Art (Level 1) required.

Students will continue their comprehension of two-dimensional visual images and art criticism. In this Level 2 course, additional materials of visual practice will be screen printing with inks on both paper and fabrics. We will also be stretching our own canvases and making our own paper to print, paint and draw on. The curriculum will continue the exploration of styles within European and Western art history from beginning halfway into the Modernism period at the dawning of Abstract art, through Neo-Expressionism of the 1970s. Students will also have opportunities to create art based on their

research of contemporary artists that they admire through the investigation of their own style.

#### $\sqrt{x}$ 2D Art Level III

0.5 Credit/Semester Elective Grade 11-12

Completion of 2D Art Level I & II, and teacher permission required

This is a student-led studio course with full student choice of materials within their chosen area(s) of study (themes, subject matter), and artist research.

#### $\sqrt{x}$ 3D Art Level I

0.5 Credit/Spring Semester Elective Grade 9-12

Completion of this course serves as a prerequisite for 3D art Level II and Level III.

WLC students will have the opportunity to increase their understanding and appreciation of the arts through making, and responding to, three-dimensional objects of form and/or function. Primary materials of this visual practice are paper, felt, textiles, and ceramics. For ceramics, students will learn the methods of working with clay such as coiling, slab building, and throwing on the wheel. Curriculum will explore styles of Eastern and Western art history from ancient Japanese and Chinese ceramics, while comparing and contrasting them to other global contemporary artists of today. Individual and group experiences will promote problem solving, creative thinking, and self-expression through artmaking and practices of *art criticism* (observing a work of art to examine the visual elements, analyze the parts and the entire piece of art, and interpret the artist's meaning).

#### $\sqrt{x}$ 3D Art Level II

0.5 Credit/Spring Semester Elective Grade 10-12

Completion of this course serves as a prerequisite for 3D art Level 2 and Level 3.

Students will continue their comprehension of three-dimensional objects and art criticism. In this Level 2 course, additional materials of visual practice will have opportunities to create advanced ceramic clay objects and sculptures. We will also be making our own paper and paper mache' to manipulate and create ambitious sculptural forms, in addition to screen printing with inks on both paper and fabrics to construct into 3D objects. The curriculum will explore an overview of sculptural styles and objects from ancient art history to contemporary times. Students will have opportunities to create art based on their investigations of the form, function, and meaning of the sculptural object whether it is a ceramic clay sculpture or a mythical paper maché creature.

#### $\sqrt{x}$ 3D Art Level III

0.5 Credit/Spring Semester Elective Grade 9-12

Completion of 3D Art Level I & II, and teacher permission required

A student-led studio course with *full student choice of materials within their chosen area(s) of study* (themes, subject matter), and artist research.

# Installation & Socially Engaged Art: 2D, 3D, Video, and Social Experiences

0.5 Credit/Fall Semester Elective Grade 10-12

Completion of 2D or 3D Level I required.

In this dynamic art class students will work independently, and collaboratively, to identify social and political issues of today in order to creatively respond with works of art that literally *come to life* and invite others to be a part of the art experience. The students will identify concerns that question the nature of reality, politics, the environment and society. These complex art organisms are often created by incorporating a variety of multimedia that may meld together in infinite possibilities including 2D and 3D art forms, video art, and various spatial environments.

# Communication Arts: Graphic Design, Animation, and Video

0.5 Credit/Fall Semester

This course is designed as an on-going real life project-based class that will allow students to create a working WLC digital studio lab that serves the entire WLC community. This collaborative studio will

Elective Grade 10-12

Completion of 2D or 3D Level I required.

function as a communications headquarters for the rest of the WLC community to place orders for all their print, web and video marketing needs.

Students may choose what specific communication arts skills they would like to focus on as their own roles on the design team: logo design and brand developers, digital illustrators, print designers for brochures and fliers, videographers and editors, audio editors, animators and motion graphic designers, and project managers. Through student-led organization and project management, students work together to assign roles to each member when a work request is placed in order to get the job completed to customer needs and vision. Software we will be using is the Adobe Creative suite such as Photoshop, Illustrator, InDesign, After Effects, and Premiere.

#### Graphic Arts Program - Milford High School & Applied Technology Center

**GRAPHIC ARTS** is a competency-based Career & Technical Education program offered at Milford High School & Applied Technology Center. To earn completer status in this program, students must pass both Adobe Photoshop & Graphic Design with a grade of "C" or better.

Students are eligible to earn Industry-Validated Certificates or Credentials by passing Third-Party exams administered to program completers.

#### **Adobe Photoshop**

1.0 Credit
Dual Credit Option Available/Fee
Elective
Grade 9-12

Students will learn to use Adobe Photoshop Creative Cloud to perform many different image-processing techniques within the graphic arts field. Students will gain proficiency in the use of this software and several others through project work in areas such as digital photography, web design, digital video editing, and animations. Students will work with Comic Life, Adobe Acrobat, Adobe Bridge, iMovie, iPhoto, iTunes, Photo Booth and the Wacom Tablet.

Expectation: Quality Producer

#### Animation

1.0 Credit
Dual Credit Option Available/Fee
Elective
Grade 9-12

Successful completion of Adobe Photoshop with a grade of C or better.

Students will learn to use Adobe Animate CC and a variety of related software packages such as Stykz and Garage Band to develop the essential animation techniques required for a career in the very exciting and growing multimedia industry. Students will also explore the history and evolution of early animation and the processes involved in creation of animations. Students will learn to use scanners, digital cameras, Wacom Tablets, and computer editing tools in the production of quality animations.

**Expectation: Quality Producer** 

#### **Graphic Design**

1.0 Credit
Dual Credit Option Available/Fee
Elective
Grade 9-12

Students will learn to use Adobe InDesign CC along with a variety of other graphics software packages and apps to complete projects that will include original layouts for magazine covers, posters, signs, logos, brochures and much more. Foundational knowledge of the history of printing and basic printing techniques in offset printing, screen-printing and letterpress will also be included.

Expectation: Quality Producer

## **Screen-Printing**

1.0 Credit/Fall Semester – 2<sup>nd</sup> Year Dual Credit Option Available/Fee Elective Grade 9-12 Students will learn to use Adobe Illustrator along with several other graphics software packages and apps to produce professional quality artwork. The Wacom Tablet is utilized to teach basic drawing techniques. Final products will be prepared for application to a variety of materials including paper, plastics, glass, metals, fabrics, and many others using the screen-printing processes. Common products made utilizing the screen-printing process

**Expectation: Quality Producer** 

#### Video Production - Milford High School & Applied Technology Center

**VIDEO PRODUCTION** is a competency-based Career & Technical Education program offered at Milford High School & Applied Technology Center. To earn completer status in this program, students must pass both Video Production I & II with a grade of "C" or better. Students are eligible to earn Industry-Validated Certificates or Credentials by passing Third-Party exams administered to all completers.

#### Video Production I

1.0 Credit
Dual Credit Option Available/Fee
Elective
Grade 9-12

Students in this class will develop skills in video and audio production, learning in studio and on remote. Students may do work outside of the studio covering school events. Students may have the opportunity to work with outside professional producers. Individual and small group production projects will allow students to hone their skills on state-of-the-art digital editing equipment and software.

**Expectation: Social Expectations** 

#### **Video Production II**

1.0 Credit/Spring Semester
Dual Credit Option Available/Fee
Elective
Grade 10-12

Successful Completion of Video Production I with a grade of C or better.

Advanced students will further develop their skills in audio/video production. Planning and script writing are significant elements of this class. Students will continue with the use of digital video and audio technology, sophisticated video switching, and additional focus on motion graphic work.

**Expectation: Social Expectations** 

# **DIGITAL EDUCATION**

To fulfill the Grade 9 0.5 ICT Requirement Grade 9 students can choose from the following Courses:

- Computer Fundamentals 9
- Digital Desktop Publishing I if student successfully completed Digital Portfolio
- Digital Media I if student successfully completed Digital Portfolio

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade		
Digital Pathw	ays 9 & 10				
	Coding with Python				
	Rob	otics			
	Role Play	ing Games			
	AP Mobile Computer Science Principles				
Milford High School & Applied Technology Center					
√x Accounting I					
Applied Business Applications					
√x Business Principles					
√x Marketing I					
	Milford High School & Applied Technology Center				
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Accounting II

Accounting III Capstone
Business Management
Computer Science Principles (AP/H)
Data Structures (Honors/AP)
Java Programming (Honors)

Marketing II

Personal Finance & Career Management

Programming Fundamentals

Milford High School & Applied Technology Center
Fashion Marketing
Remarkable Service
Sports & Entertainment Marketing

#### Digital Pathways 9 & 10

0.5 Credit/Semester Requirement Grade 9-10

This course meets the ICT requirement.

Students may earn exemption by demonstrating proficiency per the exemption rubric requirements in 8<sup>th</sup> grade.

Students will explore various digital pathways such as digital media, website design, coding and programming, graphic and multimedia creation. Students will understand how devices work, and how computer scientist create programs.

**Coding with Python** 0.5 Credit/Semester

Elective Grade 9-12

Pre-Requisite - Digital Pathways or

Students will create their own game and animated program using Python computer language. Students will explore and implement the design process using flow charts to organize and map out programs. Final projects will be student designed from the ground up throughout the semester.

Exemption for Digital Pathways

**Robotics** 

0.5 Credit/Semester Elective Grade 9-12

*Pre-requisite: Digital Pathways or* exemption for Digital Pathways

This course incorporates programming and engineering principles involved with robotics. Student will design and program one or more robots. Student may choose to participate in an inter-school competition.

**AP Mobile Computer Science Principles** 1.0 Credit/Year Long

Elective Grade 9-12

Grade 9-12

Mobile CSP is a project-based course based on the College Board AP Computer Science Principles framework. During the course, students complete two collaborative programming projects and an individual research and writing project on the impact of a recent computing innovation that appeals to the student. THE CS Principles AP course will use these performance tasks in addition to a written exam to demonstrate their learning.

**Role Playing Games** 0.5 Credit/Semester Elective

\*This course does not fulfill the Digita Kearning graduation requirement.

This course will pursue all aspects of Role Playing Games, their history, creation, and social impacts. We will sowk on various aspects of creative writing, character development, game design, rule creation, and role playing analysis. We will pursue written work, artistic creation, model design, game piece/material design, etc. Students will also study the social impact that role playing games can have on people that play and work to include aspects in their own design. The final project will be to create a robust and complete original role playing game.

#### **Accounting - Milford High School & Applied Technology Center**

**ACCOUNTING** is a competency-based Career & Technical Education program offered at Milford High School & Applied Technology Center. To earn completer status in this program, students must pass Accounting I & Accounting II with a grade of "C" or better. Students are eligible to earn Industry-Validated Certificates or Credentials by passing Third-Party exams administered to all completers.

Accounting is the language of business. If your college major will be any business, management or finance degree, two years (6 college credits) of accounting are required. Why not take Accounting at MHS and get a head start on your future?

**Project Running Start** enables you to earn those six credits while at the same time meeting your high school graduation requirements.

**College Credits: Running Start College Credits** are available through Manchester Community College. Sophomores, Juniors and Seniors that earn a grade of "C" or better in both Accounting I and II may apply for these credits. (ACT 113 - 3 Credits).

#### $\sqrt{x}$ Accounting I

1.0 Credit/Fall Semester
Dual Credit Option Available/Fee
Elective
Grade 9-12

For Program completion students must take Accounting I and Accounting II

Accounting I provides strong foundational skills for the field of business and advanced accounting. Learn the accounting cycle using manual and computerized accounting systems for sole proprietorships, and partnerships. Students complete chapter work, quizzes, computer problems, projects and computer simulations. Students will be introduced to a variety of software packages i.e. Automated Accounting, QuickBooks Premier Accountant, Microsoft Word, Microsoft Excel, Google Docs and Google Sheets. If you are planning on a career in accounting, business, finance, management, marketing, banking or plan on going into business on your own, this course is a must!

**Expectation: Quality Producer** 

## $\sqrt{x}$ Accounting II

1.0 Credit/Spring Semester Dual Credit Option Available Elective Grade 10-12

Prerequisite: Successful completion of Accounting I with a grade of "C" or better.

For Program completion students must take Accounting I and Accounting II

Students will expand upon the knowledge of *Accounting I* and explore various businesses organized as corporations. They will analyze the adjustments and valuations of a business. Students will enhance their skills working with Automated Accounting and QuickBooks Premier Accountant. This semester course is highly recommended for any student in grades 10-12 planning a career in accounting, management, finance, marketing, banking or who plans on opening their own business.

**Expectation: Quality Producer** 

## $\sqrt{x}$ Accounting III – (Capstone

1.0 Credit Dual Credit Option Available Elective Grade 11-12

# Prerequisite: "C" or better in Accounting I AND Accounting II.

College Credits: Running Start College Credits are available through Manchester Community College. Sophomores, Juniors and Seniors that earn a grade of "C" or better in Accounting III may apply for these credits. (ACT 123 - 3 Credits) Students will expand upon the foundational skills established in Accounting I and II. Focus will be on departmentalized corporate accounting systems. Students will continue to refine their skills in the Microsoft Suite of programs and the Google Platform. Quick Books Premier Accountant and Automated Accounting software will also be stressed. This course is helpful and appropriate for all students whether their interests are personal or business related and will certainly give students a head start with their future career and scholastic goals.

**Expectation: Quality Producer** 

#### **Business - Milford High School & Applied Technology Center**

**BUSINESS** is a competency-based Career and Technical Education program offered at Milford High School & Applied Technology Center. To earn completer status in this program, students must pass both Business Principles and Business Management classes with a grade of "C" or better.

Students are eligible to earn Credentials and Industry-Validated Certificates by passing the Third-Party exams administered to all completers.

#### **Applied Business Applications**

1.0 Credit/Fall Semester Dual Credit Option Available Elective Grade 9-12 Students develop knowledge & skills required in a broad range of business and personal applications. Microsoft Office 2013 and Google Apps platforms will be used to prepare documents for home, school, and future work life situations. Students will develop critical thinking, decision making, problem solving and communication skills in this class. If you plan to enroll in the MHS/ATC Accounting program, Marketing program or Business program, the content of this class will prove extremely valuable.

**Expectations: Self-Directed Learner** 

#### $\sqrt{x}$ Business Principles

1.0 Credit/Spring Semester Dual Credit Option Available Elective Grade 9-12 This foundational course is an overview of the various organizational structures in business. Students will be introduced to finance, marketing, operations and management. Students will gain practical knowledge while studying economic and social concepts related to laws governing business enterprises. Students will learn the importance of making informed decisions as both consumers and producers to gain a better overall understanding of the role of commerce in our economy. This course prepares students for additional future classes in the Business department.

**Expectations: Quality Producer** 

#### $\sqrt{x}$ Personal Finance & Career

#### Management

1.0 Credit
Dual Credit Option Available
Elective
Grade 10-12

Students will gain knowledge and skills that are necessary to function effectively as consumers, workers and responsible citizens in today's global economy. There will be multi-faceted focus on financial literacy, post-high school education/training options as well as keys to success in the modern workplace. Major topics include: income and taxes; budgeting; saving; credit; banking; checking account management. Students will explore a broad range of career topics with a focus on career "management". Students will research education and training needed for entry into particular career pathways as well as the ongoing training and education required for advancement. Students will learn problem-solving, decision-making and goal-setting skills required for success throughout their lifetimes. A professional portfolio will be developed as an essential element of this class.

**Expectations: Quality Producer** 

#### **Business Management**

2.0 Credit
Dual Credit Option Available
Elective
Grade 10-12

**Prerequisite:** Satisfactory Completion of *Business Principles* with a grade of "C" or

Students in this class will explore the various forms of business ownership. They will be introduced to the roles and responsibilities of a business manager. Motivating, leading, managing and controlling are among the many skills necessary to be an effective manager in workplace settings. Students will explore concepts of organizational structure, financial & human resource management, production & marketing management and risk management. Students will develop a business plan and participate in the entrepreneurial trade show as a culminating experience in this class.

**Expectations: Quality Producer** 

#### Marketing - Milford High School & Applied Technology Center

**MARKETING** is a competency-based Career & Technical Education program offered at Milford High School & Applied Technology Center. To earn completer status in this program, students must pass both Marketing I and Marketing II with a grade of "C" or better. Students may earn Third-Party *Industry-Validated Certificates* and *Credentials* by passing exams administered to all program completers.

#### Marketing I

1.0 Credit/Fall Semester Dual Credit Option Pending Elective Grade 9-12 In this course students will learn the introductory skills needed to understand the world of Marketing. Students will learn purchasing, sales promotion, economics, distribution, pricing, risk management, the marketing mix, market research, and how to design a marketing plan. Knowledge will be applied through a broad variety of case studies and hands-on projects.

Expectation: Self-Directed Learner

#### **Marketing II**

1.0 Credit/Spring Semester Dual Credit Option Pending Elective Grade 10-12

**Prerequisite:** Completion of **Marketing I** with a grade of "C" or better.

Students will further their marketing knowledge and explore more in depth marketing concepts through practical experiences, marketing research, case studies, and self-directed projects. Topics include finance, entrepreneurship, and career development. Students will be exposed to marketing experiences that will reinforce learned skills and competencies such as business management, leadership, administration and operations.

**Expectation: Self-Directed Learner** 

#### **Fashion Marketing**

1.0 Credit Elective Grade 11-12

**Prerequisite:** Completion of **Marketing I** with a grade of "C" or better

Students will be exposed to the broad spectrum of business and marketing functions as they relate to the fashion industry. They will gain working knowledge of textiles, promotions, visual merchandising, as well as the various career pathways that exist in this field. Applied academics in math & communications will be a focus of the class. Whether the students aspires to work in retail or perhaps sees themselves in a more entrepreneurial mode, this class will provide the most important foundational knowledge for both. *Expectation: Self-Directed Learner* 

#### **Sports & Entertainment Marketing**

1.0 Credit Elective Grade 11-12

**Prerequisite:** Completion of **Marketing I** with a grade of "C" or better.

This is a specialized course for students with a specific interest in sports and/or entertainment marketing. Students can build on competencies previously introduced in other business and marketing classes as their study progresses into these fields of marketing. Students will gain competencies in sponsorship, branding and licensing and promotion for these fields. They will be exposed to a variety of sports and entertainment activities and learn about the many career options available in these fields.

Expectation: Self-Directed Learner

#### Computer Science - Milford High School & Applied Technology Center

**COMPUTER SCIENCE** is a competency-based Career & Technical Education program offered at Milford High School & Applied Technology Center. To earn completer status in this program, students must pass **Programming Fundamentals, Java Programming** and **Computer Science Principles** with a grade of "C" or better. Students are eligible to earn *Industry-Validated Certificates* or *Credentials* by passing Third-Party exams administered to all program completers.

**College Credits: Running Start Credit** is available through Nashua Community College. Sophomores, Juniors or Seniors enrolled in Programming Fundamentals, Java Programming or Computer Science Principles may apply for these credits

# √x Computer Science Principles (AP/H)

1.0 Credit
Dual Credit Option Available/Fee
Elective
Grade 10-12

Prerequisites: Completion of Programming Fundamentals with a grade of "C" or better OR completion of Algebra II with a grade of "C" or better AND instructor permission.

Students will be introduced to the central ideas of computing and computer science. They will engage in activities to instill the ideas, processes and practices of computational thinking. They will gain appreciation of how computing and computer science is changing the world. In this class, students will learn how to access the world of mobile services and applications not only as consumers but as creators, as well. They will learn to develop entertaining and socially useful apps that can be shared with friends and family. Students will learn problem solving skills. This class is part of a collaborative project involving the College Board and National Science Foundation.

**Expectation: Quality Producer** 

## $\sqrt{x}$ Programming Fundamentals

1.0 Credit/Fall Semester Dual Credit Option Available/Fee Elective Grade 10-12

**Prerequisite:** Completion of **Algebra I** with a grade of "C" or better.

This course is intended for students with no prior experience in computer programming. Students are introduced to number systems, logic, ethics and other fundamental computer science topics. Students learn to write code using a variety of popular languages and styles including but not limited to: HTML/CSS, Java Script, Python and Java.

Expectation: Complex Thinker

# $\sqrt{x}$ Java Programming Honors

Credit/Spring Semester
Dual Credit Optional Available/Fee
Elective Grade 10-12

Prerequisite: Completion of Algebra I with a grade of "C" or better and Programming Fundamentals with a grade of "C" or better(or instructor approval).

This class is a pre-AP course and students will be expected to complete written assignments on various programming concepts including basic data structures. Emphasis is placed on procedural programming techniques, the development of algorithms to process both text and numerical information, coding and debugging techniques and documentation.

**Expectation: Quality Producer** 

#### $\sqrt{x}$ Data Structures

Honors 1.0 Credit/Spring Semester Dual Credit Option Available/Fee Elective Grade 10-12

Prerequisite: Completion of Java Programming with a grade of "B" or better.

Students will learn program methodologies, algorithms, and data structures as they are implemented in Java. Applications of both mathematical & linguistic computing provide the context in which these topics are treated. Students create programs to solve logical and theoretical problems. This is an Advanced Placement class. Students taking this class are expected to take the standardized Advanced Placement test in May. Students achieving a qualifying score on the test can earn college credit.

**Expectation: Complex Thinker** 

# **FAMILY AND CONSUMER SCIENCE**

# 1.5 Credits in the following; Art, Music, Technical Education, or Family and Consumer Science are required for Graduation

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Creative Arts I			
	Child Care & Parenting Creative Arts I  Creative Arts II  \$\sqrt{x}\$ Creative Cooking I  \$\sqrt{x}\$ Creative Cooking II  \$\sqrt{x}\$ For The Love of Leftovers  Milford High School & Applied Technology Center  -Culinary Arts Program-  \$\sqrt{x}\$ Culinary Arts I		
			dvanced Baking  \overline{x} Culinary Arts II
Child Care and Parenti 0.5 Credit/Semester Elective Grade 10-12	pers This exan how valu unit. topid	onal choices we make not class explores the roles an nines the different stages of the very definition of fames change, and the affect it. Human reproduction and	ourse designed to illustrate how the only affect ourselves but affect others. In dresponsibilities of parenting, and of human development. It addresses ily changes as societal norms and thas on individuals and the family responsibility, and other appropriate ents will be expected to plan, develop, hildren of preschool age.
√x Creative Arts I 0.5 Credit/Semester Elective Grade 9-12	Welcome to Creative Arts! This class designed to enable students to use a variety of techniques and mediums to effectively communicate ideas. Students will demonstrate a respect and appreciation for diversity and creativity in others, and will also self- assess their own works of art. This is a project based class that allows students to work independently and at their own pace. Creative Arts is a very unique class and provides you with an opportunity to "just breathe" and let your creative juices flow.		
√x Creative Arts II  0.5 Credit/Semester Elective Grade 10-12	use a idea dive work work uniq and act o	Welcome to Creative Arts! This class designed to enable students to use a variety of techniques and mediums to effectively communicate ideas. Students will demonstrate a respect and appreciation for diversity and creativity in others, and will also self- assess their own works of art. This is a project based class that allows students to work independently and at their own pace. Creative Arts is a very unique class and provides you with an opportunity to "just breathe" and let your creative juices flow. Students in Creative Arts II will act as teacher assistants, perform art demonstrations, and work on advanced art projects.	
√x Creative Cooking I 0.5 Credit/Semester	I want to satiate your palate with good eats! Welcome to Creative Cooking! A class designed to give you experience cooking a variety		

Elective Grade 10-12

of different foods...... You may have a passion for cooking or may just be plain afraid of tackling recipes and stepping into the kitchen. Creative Cooking is an introductory course in food preparation and safety and sanitation. It is a semester long course designed to give you a collaborative cooking experience with your peers, and an opportunity to host on special occasions. You will demonstrate the ability to prepare, store, and serve aesthetically pleasing foods. Please join us as we discover superfoods and also feast on some traditional comfort foods.

## √x Creative Cooking II 0.5 Credit/Semester Elective Grade 10-12

I want to satiate your palate with good eats! Welcome to Creative Cooking! A class designed to give you experience cooking a variety of different foods...... You may have a passion for cooking or may just be plain afraid of tackling recipes and stepping into the kitchen. Creative Cooking is an introductory course in food preparation and safety and sanitation. It is a semester long course designed to give you a collaborative cooking experience with your peers, and an opportunity to host on special occasions. You will demonstrate the ability to prepare, store, and serve aesthetically pleasing foods. Please join us as we discover superfoods and also feast on some traditional comfort foods. *Students in Creative Cooking 2 will act as teacher assistants, perform cooking demonstrations, and do food-based research.* 

### √x For The Love of Leftovers 0.5 Credit/Semester Elective Grade 10-12

You get the best of both worlds: a little bit of Creative Cooking and a little bit of Creative Arts! Come join us in a relaxing atmosphere to transform everyday items into works of arts. In this class we have adopted the philosophy of "gathering all the scraps and making sure nothing is lost". Students will be required to come up with appealing dishes from the leftovers we have accumulated and also create pieces of art work from unthinkable items. Get ready for loads of fun, coming up with ideas and drawing on other resources to see what you can create. This class is both collaborative and individual.

## Culinary Arts Program - Milford High School & Applied Technology Center

**CULINARY ARTS** is a competency-based Career & Technical Education program offered at Milford High School & Applied Technology Center. To become a completer in this program, students must pass both **Culinary Arts I** and **Culinary Arts II** with a grade of "C" or better. Students are eligible to earn **Industry-Validated Certificates** or **Credentials** by passing the Pro-Start exams administered to program completers

## $\sqrt{x}$ Culinary Arts I

2.0 Credit/Full Year Elective Grade 10-12

All CA I Students are responsible to purchase program approved chef's coat and hat.

Culinary Arts I is the first half of the Culinary Arts Program. Students learn to work in a professional kitchen with constant focus on sanitation and safety in a food production setting. Students learn techniques in baking as well as cold and hot food preparation. Windows on West Street, our on-campus restaurant, affords students the opportunity to develop "front-of-the-house" skills Students learn cooperation & collaboration and how to function as a member of a team. These are recognized as highly desirable skills in the industry. Students in Culinary Arts I will begin to develop food service management skills. The curriculum is consistent with the State of New Hampshire Competencies for Culinary Arts and is based on the standards of NRAEF the National Restaurant Association Educational Foundation - **Pro-Start**.

**Expectation: Quality Producer** 

#### $\sqrt{x}$ Culinary Arts II

2.0 Credit/Full Year Elective Grade 11-12

**Prerequisite:** Completion of Culinary Arts I with a grade of "C" or better.

CA II students are responsible to purchase chef pants to complete their uniform. (approximately \$20.00)

Culinary Arts II offers advanced students the opportunity to enhance the skills learned in Culinary Arts I. The program continues to follow the ProStart curriculum developed by the NRAEF. Students are expected to provide high quality food preparation and professional table/counter service during the operating hours of Windows on West Street. Culinary Arts II students are expected to demonstrate leadership in the kitchen, bakeshop and dining room. Preparation for the Level II ProStart Certification Exam is a priority. The paid work experience embedded in the Pro-Start curriculum will take on increased significance for advanced students. The externship is NOT a requirement for program completion.

**Expectation: Quality Producer** 

#### **Remarkable Service**

1.0 Credit/Semester Elective Grade 11-12 This one semester course, open to Juniors and Seniors ONLY, is designed to offer training in a skill set that they may find useful at many points throughout their lives. *Remarkable Service* offers real life experience with guest service, money handling, safety, sanitation and related situations in the Food Service /Hospitality industry. Class is available "C" Block only.

Expectation: Quality Producer

#### $\sqrt{x}$ Advanced Baking

1.0 Credit/Semester Elective Grade 11-12 Use your creativity, artistic skills and passion to expand and refine your previous baking knowledge acquired in Culinary I. You will be preparing different types of crusts, doughs and fillings, cakes, tarts and traditional mini French pastries. You will become familiar with the various flavor and texture elements in successful plated desserts, by creating your own plated dessert featuring multiple components. Class will include technique and recipe demonstration, group discussions and presentations.

**Expectation: Quality Producer** 

# MUSIC

# 1.5 Credits in the following; Art, Music, Technical Education, or Family and Consumer Science are required for Graduation.

9th Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade	
		Chorus Concert Band Roll, Pop Past & Present Strings & Keys		
Chorus 0.5 Credit/Full Year Elective Grade 9-12	the to or fo and recr stud festi	Chorus is open to all students who want to sing. Students will learn the fundamentals of good singing technique, be able to sing in three or four part harmony, learn about choral music of different times and styles, and hopefully acquire an interest in choral singing as a recreational activity that could continue into adult years. Qualified students will be encouraged to participate in area and state music festivals. Attendance at all class functions, including rehearsals and concerts is mandatory.		
Concert Band 0.5 Credit/Full Year Elective Grade 9-12	who perc well and time part thro	want to play a concert bar cussion). It is open to stude as beginners. Students will ensemble playing, and will es and styles. Qualified stu- cicipate in area and state m ough individual lessons and	is designed for students who play, or and instrument (brass, woodwind, or ents with prior music experience as all learn the basics of musicianship are been been been been been been been be	
Rock N' Roll, Pop Past & 0.5 Credit/Semester Elective Grade 9-12	but how sour whe inclu Roll	don't want to be in a perform American Popular music lances and media to learn aboute it came from and who the detail the origins of Rock, the is influenced by American	ents who want to take a music class, rming group. Students will explore has evolved. They will use multiple but the roots of Rock and Roll – he major figures were. Topics will e major contributors, how Rock and culture (and vice versa), and how ther popular musical genres.	
Strings & Keys 0.5 Credit/Semester Elective Grade 9-12	inte A co mee stud func goal thei usin tabl inte basi and guit	rmediate knowledge of the ambination of group and in at the needs and abilities of lents will use a traditional planentals of technique, must of being able to supplement choice. Guitar students was a combination of traditionature. All students will be earnet sites for tutorials and cs of music theory will be to classwork. This course is marist who wants a place to	isicianship and music theory, with a nt the method book with music of ill aim for the same basic goals by onal music notation and guitar encouraged to explore the use of other supplemental projects. The caught mainly through application not intended for the accomplished	

# HEALTH

#### 0.5 Credit of Health is required for Graduation

#### **High School Health**

0.5 Credit/Semester Requirement Grade 10

CPR and/or First Aid may be offered.

The purpose of high school health is to give students a platform of knowledge so they can move from healthy adolescents to a healthy adulthood. With this goal in mind the course addresses issues that are facing teenagers today. As the issues change, so does the course. Areas covered include, but are not limited to Fitness and exercise, anatomical systems, mental health and mental disorders. Tobacco, alcohol and drug use, human reproduction and birth, STD's, nutrition, non-infectious and infectious disease. CPR and/or First Aid may be offered.

# PHYSICAL EDUCATION

# 1.5 Credits in Physical Education is required for Graduation

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade	
	High School Physical Education			
	Fit For Life Racquet & Net Sports Woods & Wheels			
High School Physical Education 0.5 Credit/Semester Requirement or Elective depending on amount of credit Grade 9-12	The essential aim of the physical education department is to provide each student with a basic knowledge and understanding of various sports and activities, to develop, through practice some skill; and to formulate positive, healthy attitudes and behaviors so they may participate in lifetime activities. During the class the student will be involved in a program of activity choices designed to give experiences in different sports and recreational activities.			
Fit For Life 0.5 Credit/Semester PE Elective Grade 10-12	This course is designed for students to improve their levels. Class size is limited to 12 students who will for individualized fitness plans to develop improvement of muscular strength muscular endurance, flexibility composition, and cardio respiratory endurance. Each be circuit training 2 days per week on isokinetic naumachines, free weights and a variety of aerobic mach activities such as running, hiking, mountain biking, see P90X, snow shoeing and cross country skiing will be depending on weather conditions.		nts who will follow improvement in the areas ance, flexibility, body ndurance. Each student will isokinetic nautilus of aerobic machines. Aerobic antain biking, skipping rope,	

#### This course is designed to introduce students to sports that are **Racquet & Net Sports** 0.5 Credit/Semester played with racquets such as Tennis, Badminton, Volleyball and PE Elective Pickle ball. Students will learn game history and rules. Emphasis Grade 10-12 will be placed on improvement of introductory and advanced sport skills and techniques. Each unit, students will participate in games and tournaments to utilize newly acquired and refined sport skills. Students will also strive to improve on personal physical fitness and the cardio-respiratory endurance needed to play these activities. Woods & Wheels Students will participate in a hybrid course combining aspects of environmental conservation and outdoor education. Individuals 0.5 Credit/Semester PE Elective will develop a deeper understanding of the importance of Grade 10-12 environmental sustainability through riding, trail building and advocacy, and the promotion of mountain bike sports. Physical education will provide students with opportunities to learn valuable life skills in the areas of mountain bike riding, maintenance, and repair. Students will work to build and develop trails to meet the needs of today's riders, and gain a greater understanding of effective trail building and design (from a rider's perspective). Due to the uncertainty of New Hampshire weather, activities could change to XC skiing for the latter part of the

semester.

# **TECHNOLOGY EDUCATION**

9th Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade		
	√x Field & Forest Engineering				
	$\sqrt{x}$ Woodworking & Design I				
		$\sqrt{x}$ Woodworking & D	Design II		
		$\sqrt{\overline{x}}$ Computer Aided Desig	gn/Design I		
	١	$\overline{x}$ Computer Aided Design	n/Design II		
		Milford Applied Techno $\sqrt{x}$ Engineering De			
		Robotics			
		Milford High School &	Applied Technology Center		
		Advanced Const	truction Technology		
		Advanced Engin	eering Design (Std.)		
		Advanced Pre	cision Machining I		
	Basic Welding				
	Construction Technology				
		Precisio	n Machining		
	Residential Finish Carpentry				
	Advanced Precision Machining II				
		Manufacturing/	Automation Career Exploration (MACE)		
	Contoocook Valley Regional High School				
	-Firefighter/EMT Program-				
	Firefighter I / EMT				
	Mascenic Regional High School				
	√x Automotive Service Technology I				
	Automotive Service Technology II				

√x Field & Forest Engineering
0.5 Credit/Semester
Elective
Grade 9-12

This course is a survey of many of the core technological competencies that our industrial culture rests upon. This course has a strong scientific, academic, and design element as well as a great deal of hands-on experience. Students can expect to research and write extensively. With an emphasis on experiential and project based learning, course content will cover shop safety, tool maintenance and use, planning and design and material sourcing and selection. Forestry science and arboriculture will figure strongly in our learning. Many of our projects will begin with sourcing our own raw materials from the forests and fields around the school. Projects will include traditional woodworking skills as well as a seasonal selection of skills that may include stone carving and knapping; ceramics; fiber arts such as felting, spinning and making cordage; basketry, wattling, bark work, maple sugaring and other seasonally appropriate crafts. This course will focus on environmental awareness, stewardship, and science while building STEM skills that transfer well to the postsecondary economy.

### √x Woodworking & Design I 0.5 Credit/Semester Elective Grade 9-12

This course is appropriate for students with a range of woodworking experience, from "beginner" to "advanced." This course has a strong academic planning and design element in addition to hands on practice, and students can expect to research and write extensively. Course content will be shaped in part by the interests and abilities of each class. Content will include shop safety, tools and equipment, planning and the design process, CAD (Computer Aided Design), selection of materials, materials assembly and final surface preparation. The class will promote a familiarity with traditional hand tools as well as portable power and machine tools. Students will expand their knowledge and experience through various projects, lessons, and vocabulary. The projects are designed to provide students with as much experience as possible in a wide variety of industrial, woodworking and joinery techniques, using skills that transfer well to the postsecondary economy.

#### √x Woodworking & Design II 0.5 Credit/Semester

0.5 Credit/Semester Elective Grade 9-12

**Prerequisite**: Woodworking & Design I

This course builds on the techniques of Woodworking & Design I while exploring the design process through the medium of traditional woodworking and joinery. Orthographic drawing and the use of CAD (Computer Aided Design) technologies will be employed in the planning of projects that will otherwise use largely hand tools and traditional joinery techniques. This course has a strong academic planning and design element as well as hands-on practice, students can expect to research and write extensively. With an emphasis on experiential learning, course content will cover shop safety, tool maintenance and use, planning and design, material selection and assembly and final surface preparation. Many of the projects will begin with raw or green wood, and employ techniques for shaping wood that have been practiced by artisans for thousands of years. Skills practiced may include hewing, carving, riving, shaving, steam and green bending, and green to dry joinery. Students will expand their knowledge and experience through group and individual projects, lessons, and vocabulary. This course will focus on mindfulness, craft, and materials knowledge, using hard and soft skills that transfer well to the postsecondary economy.

√<sup>x</sup>Computer Aided Design/Design I 0.5 Credit/Semester Elective

Grade 9-12

This course will introduce students to the design process with an understanding of manual drafting and computer aided drafting and design techniques (CAD/D). The concepts of geometric construction, sketching, detail drawing, dimensioning, lettering, and basic CAD/D procedures are presented in relation to drafting and design. Students will be introduced to subtractive carving (CNC routing) and potentially additive printing (3\_D printing). The course will familiarize students with concepts, processes, and skills required by professionals in the field. Strongly encouraged for students interested in Engineering/Architecture majors in college. This course has a strong academic planning and design element as well as hands-on practice, students can expect to research and write extensively. Students will expand their knowledge and experience through group and individual projects, lessons, and vocabulary. This course will focus on mindfulness. craft, and materials knowledge, using hard and soft skills that transfer well to the postsecondary economy.

**Computer Aided Design/Design II** 0.5 Credit/Semester Elective

computer aided design skills and more independent designs. Prerequisite of CAD I.

**Prerequisite:** Computer Aided

Design/Design I

Grade 9-12

This course is a continuation of CAD I with emphasis on additional