

Winnacunnet Cooperative High School

Program of Studies

2022-2023



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www.winnacunnet.org
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UNH Internship Site & Master's Program
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Winnacunnet High School Core Values and Beliefs

The Winnacunnet High School Community believes in educating the whole student by providing a flexible, engaging, and supportive atmosphere where learning is relevant and lifelong. Students are encouraged to work both collaboratively and independently to foster effective communication. We are committed to providing an education that promotes creativity, innovation, critical thinking, problem solving skills, and responsible decision making. We believe this will enable our students to become active, contributing citizens of their own communities. Our commitment to these beliefs will help prepare all students to achieve their full potential.

Winnacunnet High School Learning Expectations

The [Winnacunnet High School Learning Expectations](#) have been developed through a collaborative process between all departments. Specifically, the learning expectations have been defined as the following: Communication, Creativity, Collaboration, Self-Direction. These are school-wide competencies that reflect our core values and beliefs and are essential for students to become college, career and citizen ready. Teachers will assess and record in PowerSchool the WHS Learning Expectations using the school-wide rubric to report student progress over time.

WHS Diploma Requirements

Please note: Students who have not completed the school's academic requirements for graduation may not participate in the graduation exercises. All students must earn the following credits and course requirements to obtain grade level status:

Sophomore	24 credits	successful completion of freshman English
Junior	48 credits	successful completion of sophomore English
Senior	74 credits	successful completion of junior English

Credits required to graduate must include:

English	Four successive courses
Mathematics	Three successive courses
Science	Three successive courses
Social Studies	Seven successive courses and a concentration course
Physical Education	Three successive courses
Wellness	Two successive courses
Fine Arts	One course from Art, Music, Theatre
ICT	One Information Communication Technology course
Freshman Seminar	One course in grade 9

Below is a table that outlines the credits needed from each department in order to receive a Winnaccunet Scholastic diploma:

Requirement	Credits	Information
English ¹	18	
Mathematics	14	Must include Algebra I
Science	14	Must include Biology and Physical Science
Social Studies	16	Must include 7 successive courses and a concentration course
Physical Education	6	
Wellness	4	
Fine Arts	2	May include Art, Music and Theatre
ICT	2	Must meet the Information Communication Technology Standard
Elective Credits	34	
Total credits required for graduation	110	

¹ Exposure to English/ mathematics: In compliance with the New Hampshire Board of Education Minimum Standards for Public School Approval, students shall engage in learning competencies in English and mathematics for every year they are in high school until graduation, regardless of English or mathematics graduation requirements have been achieved. Unless specifically noted, a designation of English or math exposure does not imply that a course outside of the respective department fulfills an English or mathematics graduation requirement.

Below is a table that outlines the credits needed from each department in order to receive a Winnacunnet Standard Diploma:

Requirement	Credits	Information
English ²	18	
Mathematics	12	Must include Algebra I
Science	12	Must include Biology and Physical Science
Social Studies	14	Must include 7 successive courses
Physical Education	4	
Wellness	4	
Fine Arts	2	May include Art, Music and Theatre
ICT	2	Must meet the Information Communication Technology Standard
Elective Credits	24	
Total credits required for graduation	92	

All students will start on the Scholastic diploma track. At the end of their sophomore year or anytime thereafter, the student can work with their school counselor if they would like to adjust to the standard diploma track. This would require parent/guardian approval.

All students are still required to take 6 classes a trimester to be considered a full-time student. Seniors can take 5 classes.

² Exposure to English/ mathematics: In compliance with the New Hampshire Board of Education Minimum Standards for Public School Approval, students shall engage in learning competencies in English and mathematics for every year they are in high school until graduation, regardless of English or mathematics graduation requirements have been achieved. Unless specifically noted, a designation of English or math exposure does not imply that a course outside of the respective department fulfills an English or mathematics graduation requirement.

Academic Planning Questions and Answers

How do I register for classes?

The WHS Program of Studies is online at www.winnacunnet.org, and is updated continuously. Digital copies will be distributed to students via email at the beginning of the calendar year. Teachers will recommend students for the next English, mathematics, science, social studies, world language and elective courses. It is very important for students to make their selections carefully because the master schedule is built upon student requests. Students should consult with their teachers and parents prior to scheduling their classes online through PowerSchool. Students will be asked to choose alternate courses in the event a first choice course cannot be scheduled.

Students currently in the eighth grade will be recommended by their teachers for high school English, mathematics, science, social studies, and world language in January (or according to procedures established by each sending school). Parents should communicate with their respective eighth grades to understand more about this process. On step-up day for eighth graders, students will be given a copy of the Program of Studies and a course registration form to register for electives on which they will be asked to prioritize their choices. Preliminary schedules will be available at the Fresh Start Camp in August.

How do I know which electives to take in high school?

Elective courses are offered in every academic department at Winnacunnet. Elective courses plus required courses combine to make a program of studies unique to every student. Students will choose electives to complement their college and career goals as well as to apply core academic skills. Many introductory elective courses have follow-up courses that enable students to concentrate in an area of interest. It is important to read the course information in this Program of Studies for each curriculum area as noted in the table of contents. This will provide the necessary information to make informed choices and/or ask the right questions of counselors and teachers. Please refer to [the complete listing of electives](#) and read the course descriptions for more information.

What are my educational or training pathway choices after high school?

See your school counselor for more information about all of these education/training pathway choices:

<ul style="list-style-type: none">• <u>Certificate</u>: post-secondary vocational training of less than four years.• <u>Associate</u>: two-year College or technical school degree.• <u>Bachelor</u>: four-year college degree (baccalaureate).• <u>Bachelor plus experience</u>: four-year college degree plus experience in a related field.• <u>Masters</u>: one to two years of study beyond the baccalaureate.	<ul style="list-style-type: none">• <u>First Professional</u>: entry level requires at least two years of study beyond the baccalaureate.• <u>Military Service</u>: education and training may be obtained through military service.• <u>Apprenticeship</u>: two to four years of OJT plus related classroom instruction• <u>State License</u>: a license may be required to practice the occupation in New Hampshire.• <u>Gap Year</u>: a structured period of time to
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<ul style="list-style-type: none"> • <u>Doctorate</u>: at least three years of study beyond the baccalaureate. 	travel abroad, learn new skills and/or volunteer.
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What is the Information and Communication Technology (ICT) diploma requirement?

The New Hampshire School Minimum Standards include a section for ICT Literacy which requires an integrated K-12 ICT Literacy program to be implemented in all schools that adhere to [the ICT Standards](#). As such, WHS students must successfully complete at least one class listed below to meet this diploma requirement:

Business Introduction to Business Business Law College Accounting Entrepreneurship Personal Finance (Business Course) International Business Warrior Trading Post Sports Management Yearbook Publication XHTML Web Design	Technology and Engineering Education Architecture Design, Create & Innovate Introduction to Engineering Introduction to Graphic Design Principles of Engineering Robotics 3D Animation and Game Design Intro to Flight	SST Automotive Technology Computer Science Digital Media Arts
Art Photography	English Intro to Media Journalism Journalism: The Winnachronicle	Mathematics AP Statistics AP Computer Science AP Computer Science Principles Digital Electronics Intro to Programming: Android Design, Code, Build
Music Electronic Music		

What is the Advanced Placement program?

Advanced Placement courses are taught by high school teachers who follow course guidelines developed and published by the College Board. These courses are college level classes. Students most likely to succeed will have successfully completed a sequence of coursework at an accomplished level of performance prior to enrollment. Students should also possess a high degree of interest and curiosity for the subject. Examinations in May determine a student's eligibility for advanced college placement and for possible credit at participating colleges. Students enrolled in AP courses at WHS are expected to take the examinations. Essential information for eligibility to an advanced placement class is discussed in the course descriptions in the corresponding department section of this Program of Studies Guide. Talk with your teacher and school counselor and visit www.collegeboard.com for more information and guidance about Advanced Placement programs. The following AP programs are offered at WHS based upon sufficient enrollments:

AP Biology AP Calculus AB AP Chemistry AP Computer Science AP English Literature and Composition	AP Environmental Science AP Physics I and II AP Statistics AP Studio Art AP United States History I AP United States History II
<i><u>Note:</u> Music Theory and Advanced Music Theory will prepare students for the Advanced Placement exam</i>	

How does the online registration process support AP/ Rigorous class enrollment?

Students who are interested in taking an AP/ rigorous option for the following year should express their interest verbally to their current teacher. AP offerings in central disciplines will require a current teacher recommendation in order for students to enroll.

- Courses that require teacher recommendation prior to registration are: AP Studio Art, English Literature, College Composition, AP US History, AP Calculus AB, AP Stats, AP Biology, AP Chemistry, AP Physics 1&2.

AP offerings outside of traditional core offerings may be selected by students during the registration process. However, the final enrollment in the course will require the teacher's approval.

- Courses that require teacher approval as a component of the registration process: Winnachronicle, Yearbook, AP Computer Science.

The master schedule will be built to best accommodate all requests; however, enrollment may be limited by teacher availability.

What are dual enrollment programs?

Winnacunnet High School offers dual credit courses through articulation agreements between two post-secondary institutions; Great Bay Community College and Southern New Hampshire University. Students who enroll in a dual credit course and earn an acceptable final grade as established by the college meet high school requirements and receive college credits; and reduce the cost of higher education. College credit courses are offered during the day at Winnacunnet High School, taught by Winnacunnet or at the Seacoast School of Technology faculty who have met the professional standards requirements if the post-secondary institution as adjunct college instructors. The table below outlines these opportunities.

Great Bay Community College (Running Start)	Southern New Hampshire University (Dual Enrollment)
AP Computer Science Anatomy & Physiology College Composition Topics in Applied College Math	College Accounting II Calculus CP Spanish IV French IV

What are the guidelines regarding Distance Education?

When a student wishes to take a distance education course for elective or required WHS high school credit, paid for by the student, the following prior approvals must be granted and the following conditions must apply: All credit granting high school online programs must be accredited, recommended by the Director of Guidance, the Curriculum Coordinator, and approved by the Principal. The Director of Guidance will maintain a current listing of approved online programs. Online programs currently approved: www.byu.edu and/or www.vlacs.org

If a student takes an online course(s) for elective credit, upon successful completion of the course(s) from that institution(s), WHS will accept the credit as a WHS elective once an official transcript has been received. If a student takes an online course(s) to meet a WHS graduation credit requirement, the online course must be approved in advance by the subject area Department Administrator. If approved, WHS will accept the credit toward a WHS course requirement once an official transcript has been received.

If a student takes an online course for the purpose of advancing to the next level of study at WHS, the online course must be approved in advance by the subject area Department Administrator. The student, to be eligible for the next level of study at WHS, must take the same summative assessments required of students in a comparable course at WHS. Upon completion of the summative assessment(s), and with consideration of the approved online class official final grade, the subject area Department Administrator must make a recommendation to the student regarding his/her readiness for advancement to the next level of study at WHS. The student must produce an official transcript of successful completion of the course(s) before WHS grants credit(s). The amount of credits that students may transfer will be determined through a meeting with the department administrator and guidance counselor. Approved online coursework is listed as transfer credit and is not included in the college rank.

What are the grading guidelines at WHS?

Letter grades at Winnacunnet High School give structure to the grade reporting system by creating a uniform scale on which marks will be based. Numerical equivalents for letter grades have been designated and must be used by all staff members when determining a student's grade. Pluses (+) and minuses (-) carry a numerical value. All letter grades including pluses and minuses will be used to determine honor roll eligibility and are calculated in figuring class rank. Letter grades at Winnacunnet have the following numerical equivalent.

A+ = 97 – 100	A = 93 – 96	A- = 90 – 92
B+ = 87 – 89	B = 83 – 86	B- = 80 – 82
C+ = 77 – 79	C = 73 – 76	C- = 70 – 72
D+ = 67 – 69	D = 63 – 66	D- = 60 – 62
E = 0 – 59		“I”, “NC” or “MU”, please refer to the explanations below.

Should a student lack sufficient evidence for assessment in one or more course competencies the teacher may issue one of the following temporary grades:

“I” = Academic Incomplete: The student has not completed essential work for the course usually due to extenuating circumstances. Mastery of the course competencies and/or standards have not been fully demonstrated. The teacher will describe the work the student needs to accomplish and submit a final grade of “I” until such time as the work has been completed and assessed by the teacher. The student is responsible to work with the teacher who will issue a final grade within three weeks of the end of the trimester in which the incomplete grade was issued. A grade of incomplete may affect athletic eligibility.

“NC” = Academic Credit Recovery Plan: Students receiving an “NC” must have achieved a 60% or better average but have not demonstrated developing, proficient or advanced evidence for assessment of one or more of the course competencies. “NC” grades are assigned by the teacher. The teacher will inform the student and parents that the student will be receiving an “NC” by completing an academic contract form and this form will be sent home at the completion of the trimester explaining the NC process. The student’s administrator will discuss the NC prescription plan with the student. The student can complete the prescription plan after school or in summer school and the student will have until the end of the following trimester to complete the NC prescription plan. If a student does not complete the NC prescription plan by the end of the following trimester, the student will not receive credit for the course. No Credit will be reflected on the transcript. If this course fulfills a graduation requirement of any kind the student will be required to enroll in a credit recovery plan as approved by the department administrator or repeat the course. A grade of “NC” may affect athletic eligibility.

All courses have the same two category weights for grades: summative and formative assignments. Summative assignments make up 90% of the final grade and formative assignments make up 10% of the final grade.

What is Competency Based Grading?

The Minimum Standards for School Approval state that school districts in New Hampshire must have a competency assessment process and defined course level competencies in place for all public high schools. Credit toward graduation is to be awarded based on student demonstration of mastery of these course level competencies.

The personalized learning model at Winnacunnet is supported and aligned to the best practices as outlined in the New Hampshire Minimum Standards for Public School Approval, the Common Core State Standards, the New England Association of Schools and Colleges (NEASC), and the New England Secondary School Consortium (NESSC). New Hampshire has been in the forefront of personalized learning and competency-based learning for the past several years.

Coinciding with the implementation of competencies is a change in the grading system. In a competency-based grading system, grades more accurately reflect a student’s learning progress and

achievement and are more clearly documented for students and parents. For more information, please see the [WHS Curriculum Website](#).

What are the instructional groupings at Winnacunnet?

Winnacunnet High School offers instructional groupings in English, mathematics, science, social studies, and other selected courses as identified in this guide. Instructional groupings exist to encourage academic challenge and to ensure student success. Teachers will vary the pace of learning, the level of independence expected of students, and the complexity of assignments to address different student needs. Students vary in their motivation or interest in a subject, in the efficiency of their study habits, in their level of mastery of skills required to excel in a subject, and in their comfort and sophistication with conceptual and analytical thinking. While learning differences exist, it is the goal to help each student achieve to their fullest potential.

Students who have a strong aptitude and interest in a particular subject area have the opportunity for in-depth exploration and study in the Advanced Placement and Honors curriculum. Because of the rigorous nature of Advanced Placement and Honors courses, students must make a commitment to invest the time and effort required. Students most successful in Honors and Advanced Placement courses have also taken recommended course sequences prior to enrollment. See [this document](#) for department specific descriptions of instructional groupings.

When is the honor roll published and how is it determined?

Honor Roll is published after each trimester marking period. Additional names will be added at one designated date for eligible students who may have received Incomplete or No Credit grades.

Only full-time students are eligible for high honor roll. Students must have a minimum 3.50 GPA of the trimester grades. All grades carry equal value. One “E” or “D” automatically disqualifies a student from high honor roll consideration. Refer to the [Parent/Student Handbook](#) for more information.

What is rank in class?

Two ranks are reported for all seniors based upon courses taken in grades 9 through 11. The Winnacunnet High School Rank is based on the average of final grades for all courses. The College Rank is based on the average of final grades for courses in English, mathematics, science, social studies and world languages and in other selected classes that are leveled. Both ranks are reported to colleges. Additional information about how rank is calculated can be located in the [Parent/Student Handbook](#).

What is contract for level?

There are several courses that offer students the ability to contract for Honors, College Preparatory (CP) or Essential Studies within a single class. Courses that offer this option are identified in course descriptions.

What if I withdraw from a course?

A student with their respective school counselor must initiate requests to withdraw from any class. The process will include the department administrator, teacher, and parent. Students are not permitted to drop below the number of courses required for their respective classes without a parent, guidance counselor, director of guidance and assistant principal approval. Withdrawals after the end of the drop period will appear on the student's permanent transcript with a "W". Please refer to the [Parent/Student Handbook](#) for more specific information.

When are summative course examinations?

Examinations may occur throughout each trimester. Certain subjects may administer summative exams during the final week of the trimester according to a schedule published by the administration.

What are the academic requirements to be eligible for athletics at WHS?

In order for a student to be eligible to participate in interscholastic athletics at Winnacunnet High School, a student must pass FIVE courses in the trimester immediately preceding the respective athletic season. If the season spans two trimesters, the student must remain eligible based on the grades received during both marking periods. First trimester freshmen have no eligibility requirements and automatically qualify for fall sports. The above policy is in effect for winter and spring sports. Please refer to the Student Athletic Handbook for more information.

What is NCAA eligibility?

If your goal is to enroll in any Division I or II college or university and be eligible to play sports, you must become informed about [academic requirements necessary to ensure eligibility](#). Important information can be located online at www.ncaa.org. Your school counselor and coaches will also be of assistance.

What testing programs do students participate in?

In the Spring all juniors participate in the Scholastic Aptitude Test (SAT) and in May the New Hampshire Statewide Assessment System (SAS) Interim for Science. State law and federal law require all juniors to participate.

The Practice Scholastic Aptitude Test is administered to sophomores (PSAT 10) in the Spring and to all Juniors (PSAT) in the Fall of each year. Application deadlines, test dates, and test locations can be obtained from the guidance department.

What is the homework policy?

Homework is an important part of the learning process at Winnacunnet High School. It is typically assigned to students by their teachers to be carried out during non-school hours. Homework provides an opportunity for students to practice, explore and apply new information. Homework also offers students

an opportunity to share with parents what they are learning in school. In addition, homework benefits student achievement and prepares them for post-secondary education and employment. Completing assigned homework demonstrates independence, responsibility, creativity, extends knowledge, challenges thinking and provides feedback to teachers.

Each teacher and/or department will establish classroom practice with regards to homework and that practice will be published in individual course policy sheets. Factors teachers consider when developing homework expectations include grade level taught, subject/content, time of year and individual student's needs.

What is Study Lab?

Study lab should be a carefully chosen option for students in grades 9 - 11 who demonstrate a clear need for independent time during the school day to do schoolwork. Students electing a study lab should be aware of honor roll and athletic eligibility policies as outlined in the student handbook. Seniors not in good academic standing are assigned a study lab.

What is Warrior Block/ Advisory?

Advisory is a 30 minute period scheduled during the school day that facilitates connections between teachers and students. Students are scheduled with the same advisory teacher throughout their four years at WHS in order to maintain these connections. Warrior Block has also provided the opportunity for clubs and/ or assemblies to connect during this time.

What is early completion of studies?

It is possible for a student to complete graduation requirements in less than four years. To be eligible, a student must begin this planning very early. A student must declare his/ her intention at the end of his/her sophomore year and meet with the principal for approval. Fourth year students may opt to complete their studies at the end of trimester one or two and will participate in June graduation ceremonies.

What is the New Hampshire Scholars Program?

Winnacunnet students are encouraged to talk with their school counselor about planning high school courses for eligibility in the New Hampshire Scholars Program. This program is part of the State Scholars Initiative, a national program that motivates students to complete a rigorous course of study in high school. Benefits include recognition as a State Scholar at high school graduation.

What is the ESOL program?

Winnacunnet High School employs a full time, certified ESOL instructor to offer eligible students the opportunity to learn English. An assessment to determine English language proficiency will determine eligibility during the school registration process. Once eligibility for services is determined, students will receive direct English instruction and they can expect to be immersed in the school curriculum and co-curricular programs.

What are Extended Learning Opportunities?

ELOs are learning experiences that take place outside of the traditional classroom setting. These experiences may include, but are not limited to, independent work, career exploration and off-campus connections with community partners. Please see the [WHS ELO Website](#) for more information.

WHS Support Services

School Counseling

The [Winnacunnet Counseling Department](#) believes that a comprehensive guidance counseling program supports the mission of Winnacunnet High School to graduate students who are independent lifelong learners, creative and critical thinkers, active contributing citizens, responsible decision makers, and effective communicators. To that end, our School Counseling Department mission is to foster personal development for all students in the domains of social and moral development, emotional and physical well-being, and academic and career development.

Counselor Assignments	Student Last Names by Class	
	2023-2024	2025
Amy Waterhouse	A-C	A-D
Emily Ferzoco	D-I	E-Mc
Tim Spinney	J-O	Me-R
Jen Francoeur	P-V	S-V
Heather Cronan	W-Z	W-Z
Cara Page: 504 Counselor		
Social Worker: Tally Westerberg		
College Counselor: Melinda Shofner		
Student Assistance Counselor: Tarnya Miller- Fegan		

Health Services

The mission of [Health Services at Winnacunnet](#) High School is to promote students' development as healthy individuals and members of society. We pursue this mission as part of the larger mission of the school, guided by our commitment to the welfare of our students, the high standards of the community, and the special challenges of a cooperative school. Health services include:

- Health Education
- Access to basic medical services
- Access to preventative health services

- Appropriate referrals
- Assistance in identifying and support for students when medical conditions adversely affect learning
- Guidance and support for faculty in their work with students
- Communication with parents on student health issues

Hawley Library Media Services

The [Hawley Library Media Center](#) provides academic support and readers' advisory service to students and faculty, with a commitment to information literacy and the utilization of technology to facilitate learning. The library staff is available to guide students through the inquiry process; to assist with information access and evaluation in a variety of formats; and to promote the responsible and ethical use of information.

In the support of academic objectives, the library provides:

- Reference materials in print and e-book format
- Nonfiction books in print, ebook and audio format
- Videos and DVDs
- Access to electronic (online) reference databases
- Technology support for Chromebook, iPad and other devices including password access and resets.
- Cameras, camcorders, audio recorders, and access to video editing software TVs, DVD and VHS players, and audio players
- Class presentation and one-on-one instruction in the areas of information literacy and technology
- Research assistance both in-person and online through the library website
- Direct instruction on the research process, avoiding plagiarism, web evaluation and effective use of databases

In the support of literacy and readers services, the library provides:

- Fiction and nonfiction books in print, ebook and audio format
- Magazines covering a broad range of interests
- Lexile matching for readability
- Laptop and desktop computers are available for use during library hours.

The Hawley Library is open 7 AM to 3:30 PM Monday through Friday

Special Services Department

The Special Services Department at Winnacunnet High School provides students who are eligible for special education with an IEP which is developed to address the student's unique needs that result from his/her educational disability and ensures access to the general curriculum. The IEP provides specialized instruction and the special education services and related services necessary for the student to gain meaningful educational benefit in the least restrictive environment. Special education services and placement are determined by the student's IEP team in accordance with state and federal law.

WHS Evening Program

The mission of the Winnacunnet Evening Program is to provide meaningful and relevant educational opportunities to empower all students to become independent lifelong learners, to assist individuals in

reaching their academic and career potentials, and to guide students to become active participants in their communities. For more information [contact Leslie Dolleman](#), Director of Evening school via email or at 603-926-3395.

[Elective Courses at a Glance](#)

Department	Class	Grades
Art	Art in the Community Beginning Art I, II World Crafts Drawing Watercolor I, II Advanced Drawing Oil Painting I, II, III Sculpture I, II Ceramics I, II, III Metal Jewelry I, II, III Photography I, II AP Studio Art	9-12 9-12 10-12 9-12 10-12 10-12 10-12 10-12 11-12 11-12 10-12 12
Business & Technology (Business Strand)	Intro to Business XHTML Web Design Entrepreneurship College Accounting I Yearbook Publications Business Law Sports Management College Accounting II Career Planning Seminar Warrior Trading Post Personal Finance College Accounting III	9-12 9-12 10-12 10-12 10-12 10-12 10-12 11-12 11-12 10-12 11-12 12
Business & Technology (Technology & Engineering Strand)	Design, Create & Innovate Robotics I Intro to Engineering (PLTW) Intro to Computer Graphics Woodworking Technology I Intro to Flight Architectural Design Advanced Computer Graphics Principles of Engineering Woodworking Technology II 3-D Animation Woodworking Technology III Capstone Architecture Capstone Computer Graphics Capstone STEM Capstone Woodworking	9-12 9-12 9-12 9-12 9-12 10-12 10-12 10-12 10-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12

English	Intro to Media Public Speaking Intro to Theatre Journalism: The Winnachronicle Broadcast Television/ WHTV Filmmaking Theatre II Creative Writing Sci-Fi/Fantasy Poetry and You College Composition AP English	9-12 9-12 9-12 9-12 9-12 9-12 10-12 10-12 10-12 10-12 11-12 12 12
ELO	Arranged by the ELO Coordinator	9-12
Family & Consumer Science	Child Development I Child Development II Foods & Nutrition I Fashion I Foods & Nutrition II Nutrition III Fashion II Housing & Interior Design International Foods Developmental Psych. Exploring Teaching	9-12 9-12 9-12 9-12 10-12 10-12 10-12 10-12 10-12 10-12 11-12 11-12
Marine Corps/ JROTC	Leadership 1 / PE Leadership 2 Leadership 3 /PE Leadership 4 Leadership 5 Leadership 6 /PE Leadership 7 & 8 Match Competition I, II Advanced Drill I ,II, III	9-12 9-12 10-12 10-12 11-12 11-12 11-12 12 9-12 9-12
Freshman Seminar	Student Peer Leader	11-12
Mathematics	AP Computer Science Principles Intro to Programming: Android Design Code Build AP Computer Science Pre-Calculus AP Statistics TAC Math Intermediate Algebra Finite Mathematics Probability & Statistics Calculus	9-12 10-12 10-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12

	AP Calculus AB AP Calculus BC Contemporary Math	12 12 12
Music	Band Jazz Band ³ Chorus American Popular Music Beginning Strings Music Recording and Sound Production String Orchestra Chamber Singers Beginning Piano Intro to World Drumming Voice Beginning Guitar Guitar Ensemble Music in Cinema Music Theory Advanced Music Theory	9-12 9-12 9-12 9-12 9-12 9-12 9-12 10-12 10-12 10-12 10-12 10-12 10-12 10-12 10-12 10-12 10-12
Physical Education	Fitness for a Lifetime Individual & Net Sports Project Adventure Team Sports Weight Training Sports Medicine I & II Adv. Weight Training Competitive Sports	10-12 10-12 10-12 10-12 10-12 10-12 11-12 11-12
Science	Chemistry Marine Biology I Contextual Chemistry Astronomy & Planet Sci. Oceanography Ecology Marine Biology II Study of NH Birds Anatomy & Physiology Physics AP Biology AP Chemistry AP Physics I AP Physics II	10-12 10-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12 11-12
Seacoast School of Technology	Animal & Plant Science Automotive Technology Biomedical Science & Tech. Building Construction	10-12 10-12 10-12 10-12

³ Audition Required

	Careers in Education Computer Science Culinary Arts Digital Media Arts Health Science Technologies Marketing Technologies Pre- Engineering Welding Technologies	10-12 10-12 10-12 10-12 10-12 10-12 10-12 10-12
Social Studies	Asia Rising Europe Reborn History of Media Modern Issues This is Africa World History I World History II American Civil War Women's Studies AP US History ⁴ Crime & Punishment I & II Political Process Sociology Sports & Society The 60's Vietnam Revisited World War II AP US History II ⁵ Psychology	9-12 9-12 2021-2022, 2023-2024 9-12 2022-2023, 2024-2025 9-12 9-12 2020-2021, 2022-2023 9-12 2019-2020, 2021-2022 9-12 9-12 9-12 10 10-12 10-12 11-12 10-12 10-12 10-12 10-12 11 11-12
World Languages	French I-IV Latin I-IV Spanish I-V	9-12 9-12 9-12 (All WL courses are sequential)

⁴ Also fulfills a requirement.

⁵ Also fulfills a requirement.

Freshman Elective Courses at a Glance

Department	Class	Grades
Art	Art in the Community Beginning Art I, II Drawing	9-12 9-12 9-12
Business & Technology (Business Strand)	Intro to Business XHTML Web Design	9-12 9-12
Business & Technology (Technology & Engineering Strand)	Design, Create & Innovate Robotics I Intro to Engineering Intro to Computer Graphics Woodworking Technology I	9-12 9-12 9-12 9-12 9-12
English	Intro to Media Journalism Public Speaking Intro to Theatre Journalism: The Winnachronicle Broadcast Television/ WHTV Filmmaking	9-12 9-12 9-12 9-12 9-12 9-12
ELO	Arranged by the ELO Coordinator	9-12
Family & Consumer Science	Child Development I Child Development II Foods & Nutrition I Fashion	9-12 9-12 9-12 9-12
Marine Corps/ JROTC	Leadership 1 / PE Leadership 2 Match Competition I, II Advanced Drill I ,II, III	9-12 9-12 9-12 9-12
Mathematics	AP Computer Science Principles	9-12
Music	Band Jazz Band ⁶ Chorus Chamber Singers ⁷ American Popular Music	9-12 9-12 9-12 9-12 9-12

⁶ Audition Required

⁷ Audition Required

	Music Recording and Sound Production Beginning Strings String Orchestra	9-12 9-12 9-12
Social Studies	Asia Rising Modern Issues This is Africa World History I (2022-2023, 2024-2025) World History II (2021-2022, 2023-2024) American Civil War	9-12 9-12 9-12 9-12 9-12 9-12

Arts Education

	Exploratory Courses	Intermediate Courses	Advanced Courses
Grade 9	Art in the Community Beginning Art I	Beginning Art II Drawing	
Grade 10	Art in the Community Beginning Art I World Crafts Digital Photography I	Beginning Art II Drawing Oil Painting I Sculpture I Watercolor I	
Grade 11	Art in the Community Beginning Art I Ceramics I Digital Photography I Metal Jewelry I World Crafts	Beginning Art II Ceramics II Digital Photography II Drawing Metal Jewelry II Oil Painting I Sculpture I Watercolor I	Advanced Drawing Ceramics III Metal Jewelry III Oil Painting II, III Sculpture II Watercolor II
Grade 12	Art in the Community Beginning Art I Ceramics I Digital Photography I Metal Jewelry I World Crafts	Beginning Art II Ceramics II Digital Photography II Drawing Metal Jewelry II Oil Painting I Sculpture I Watercolor I	Adv. Placement Studio Art Advanced Drawing Ceramics III Metal Jewelry III Oil Painting II, III Sculpture II Watercolor II

Beginning Art I

Grades 9-12/ 1 Trimester/ 2 Credits

This course is designed to introduce the student to the Elements of Art. The course is hands-on and emphasizes exploration, developmental skills and imagination. Students gain an understanding of the process of making art through project units such as perspective, color, three-dimensional design, and art history. Students will also create and work in a personal sketchbook to promote creativity and artistic practice. Beginning Art is the basic course in the art sequence and is a requirement for most advanced level classes.

- To Enroll: No experience in art is required to take this course.

Beginning Art II

Grades 10-12/ 1 Trimester/ 2 Credits

This course is open to any student who has successfully completed Beginning Art I and would like to continue to grow artistically. Beginning Art II will focus on the Principles of Design, which guide artists

in creating successful compositions. Students will work on printmaking, collage, papercraft and illustration.

- To Enroll: C+ or better in Beginning Art I or recommendation from an art teacher.

Art in the Community
Grades 9-12/ 1 Trimester/ 2 Credits

In this course, students will learn about public art (commissioned murals and sculptures), street art (sanctioned or not) and environmental art. We will learn about everyday people acting on their own creative impulses. We will focus on personal expression and art that is made to interact with and to confront the public. Some artists we will study include Keith Haring, Shepard Fairey, Andy Goldsworthy and Harrod Blank.

- To Enroll: No experience in art is required to take this course.
- Note: This course does not serve as a prerequisite for other advanced art classes.

World Crafts
Grades 10-12/ 1 Trimester/ 2 Credits

World Crafts is a hands-on course that explores a variety of art and crafts from around the world. Students will learn about other cultures while having fun creating a wide range of artwork that has personal meaning and value. We will create projects such as Mexican Clay Suns, Native American Sand Paintings, Guatemalan Worry Dolls, Chinese Silk Painting, and Early American Decorative Painting. This is an opportunity to try a wide variety of different craft techniques. We will also discover the many cross cultural themes in art such as symbolism, dreams, storytelling, healing, body decoration, celebration, and creating art purely for the sake of personal enjoyment. Themes will be discussed in hopes of raising awareness of our own personal global connection.

Ceramics I
Grades 11-12/ 1 Trimester / 2 Credits

Ceramics I is an introduction to the world of clay. Students will learn about three hand building techniques (pinch, coil and slab). Students will also be introduced to working at the potter's wheel. Surface design is where students personalize their work using additive, subtractive, textural and color techniques. Students will learn about the states of clay as well as firing and glazing. Finally, students will document their work and reflect on the experience in digital format. Craftsmanship, creativity and responsibility for one's work are all concepts that are highly encouraged in the studio.

Ceramics II
Grades 11-12/ 1 Trimester/ 2 Credits

This intermediate art course will build on the skills acquired in Ceramics I. Students will continue to explore and refine their artistic voice and craftsmanship. New skills will include collaring in for vase/bottle/pitcher forms, making covered jars with a perfect fit, plates, a set of 6-8 pieces that match. Students will also add to their digital portfolio and revise their artist statement from Ceramics I.

- To Enroll: C+ or better in Ceramics I or recommendation from an art teacher.

<p style="text-align: center;"><u>Ceramics III</u> Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This advanced level course will build on the skills acquired in Ceramics II. Students will focus on finding their own inspiration, planning unique pieces, and executing technically challenging ideas. Students will continue to increase their knowledge base, skill level, and resulting ability to work independently in clay. Students must be willing to challenge themselves to find answers through research, experimentation, and problem solving. The student will document their process using a sketchbook and/or blog.</p>
<ul style="list-style-type: none"> • To Enroll: C+ or better in Ceramics II or recommendation from an art teacher.
<p style="text-align: center;"><u>Oil Painting I, II & III</u> Grades 10-12/ 1 Trimester Each/ 2 Credits Each</p>
<p>This multi-level course gives beginning and advanced students the opportunity to work together in a studio environment. The emphasis for Oil Painting I will be the development of observational skills as well as understanding color theory through a variety of painting experiences. Oil Painting II and III students will further their study of color theory and composition. Specific color palettes will be explored with options to create paintings based on a choice of subjects. Historical and contemporary paintings will be presented to reveal the tradition of oil painting. Students may find the need to schedule time after school in order to successfully complete the assigned work.</p>
<ul style="list-style-type: none"> • To Enroll: C+ or better in Drawing
<p style="text-align: center;"><u>Watercolor I & II</u> Grades 10-12/ 1 Trimester Each/ 2 Credits Each</p>
<p>This multi-leveled course gives beginning and advanced students an opportunity to work together in the same studio environment. Watercolor I will concentrate on developing essential skills in handling watercolors. Students will experiment with techniques and progressively create nature studies, imaginative illustrations to full landscapes. Watercolor II will continue to build on skills as well as the development of more complex compositions. A variety of subject matter and media will be presented. This course allows students to explore their expressive potential through water media painting, solving photographic problems and processing. Students may find the need to schedule time after school in order to successfully complete the assigned work.</p>
<ul style="list-style-type: none"> • To Enroll: C+ or better in Drawing.

<p style="text-align: center;"><u>Drawing</u> Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>This course will focus on the basic skill of all art forms - Drawing. Students will develop their skills by working from direct observation. The course will address the Elements of Art and Principles of Design . Students will gain experience in a wide variety of materials such as graphite pencil, charcoal, colored pencil and ink. Learning the use of these media will provide a strong foundation for all artistic endeavours. Students will be responsible for keeping a weekly sketchbook. This course is the pre-requisite for Oil Painting, Watercolor, and AP Art and Design</p>
<ul style="list-style-type: none"> • To Enroll: C+ or better in Beginning Art.

<p style="text-align: center;"><u>Advanced Drawing</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This is an advanced studio course for students who want to further their studies in art. Through a variety of projects that emphasize observational techniques, students will build upon skills developed in Drawing. Additionally students will learn how to use new media as well as learn how to draw portraits and people in realistic proportions. Students will experience a variety of mediums such as graphite, charcoal, pastels, pen and ink, and colored pencil.</p>
<ul style="list-style-type: none"> • To Enroll: C+ or better in Drawing or recommendation from an art teacher. • This course is strongly recommended (but not a prerequisite) for AP Studio Art

<p style="text-align: center;"><u>Sculpture I & II</u> Grades 10-12/ 1 Trimester Each/ 2 Credits Each</p>
<p>This is a multi-leveled course in which students will develop skills in creating three-dimensional art. Projects will emphasize technique, form and content in both reductive (carving) and additive (building) processes. This is a hands-on class where students will continue to explore the Elements and Principles of Design. All students will be expected to research and brainstorm ideas for projects assigned in class.</p>
<ul style="list-style-type: none"> • To Enroll: C+ or better in Beginning Art or recommendation from an art teacher. • Drawing is recommended but not required

<p style="text-align: center;"><u>Digital Photography I</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This course provides the basic theory, practice and history of photography. Students will study and practice camera controls, exposure, lighting and composition. Students will learn digital image manipulation and printing by working with Adobe Photoshop CC. A variety of assignments will provide practice in the use of photographic equipment.</p>
<ul style="list-style-type: none"> • Note: Students must have a fully functioning digital DSLR or point and shoot camera for the class. Students must bring their cameras to class every day starting with the first day of the term. Any questions about cameras need to be addressed and resolved before the first day of

class.

- Note: This course meets the ICT requirement. Due to limited space and equipment, the class is limited to 18 students.

Digital Photography II
Grades 11-12/ 1 Trimester/ 2 Credits

This advanced level photography class builds upon the skills of the students who have successfully completed Photo 1. Assignments will require students to use knowledge that is more conceptual and focus on improving the artistic merit of their work. The objective of this class is to develop a portfolio of high quality photographs that are in presentation form that can be used for college submission.

- To Enroll: C+ or better in Photography I, or recommendation from an art teacher.
- Note: Students must have a fully functioning digital DSLR or point and shoot camera for this class. Students must bring their cameras to class every day starting with the first day of the term. Any questions about cameras need to be addressed and resolved before the first day of class.

Metal Jewelry I
Grades 11-12/ 1 Trimester/ 2 Credits

This course will explore the techniques and skills involved in creating metal jewelry. Students will be working with hand tools and a torch to create pieces in sterling silver; they will also set semi-precious stones into their jewelry. Projects will include the fabrication of rings and bracelets with patience, attention to detail, and good attendance are extremely important in this studio course. Students will gain a solid foundation in small-scale metal work through their participation in this course.

- Open to Juniors & Seniors

Metal Jewelry II
Grades 11-12/ 1 Trimester/ 2 Credits

This intermediate level course will build on the skills acquired in Metal Jewelry I. New techniques include advanced soldering skills, tube setting faceted stones, handmade bezels, texturing metal, and working with epoxy to add color. Students will have the opportunity to apply these techniques to projects of their own design. This hands-on course encourages critical thinking and problem solving. There is much room for individual expression and creativity within each assignment.

- To Enroll: C+ or better in Metal Jewelry I or recommendation from an art teacher.

Metal Jewelry III
Grades 11-12/ 1 Trimester/ 2 Credits

This advanced level course will build on the skills acquired in Metal Jewelry II. Students will focus on finding their own inspiration, planning unique pieces, and executing technically challenging ideas. Students will continue to increase their knowledge base, skill level, and resulting ability to work independently as jewelers. Students must be willing to challenge themselves to find answers through research, experimentation, and problem solving.

- To Enroll: C+ or better in Metal Jewelry II and the desire to grow as an independent artist.

AP Studio Art
Grade 12/ 3 Trimesters/ 6 Credits

This course is open to seniors who are interested in furthering their studies in the visual arts and who are seeking AP credit. The class will follow the AP curriculum set forth by the College Board. The AP student will prepare and develop a portfolio of 2D work by the end of April. Students may find the need to spend additional time in the studio beyond class time to complete the necessary work. . Submission for the AP credit takes place in May. Students should consult with their guidance counselor and art teachers about the correct sequence of classes to take in preparation for this course. Students are recommended to take as many art classes as possible if they are planning to pursue an art major in college. Art school and college representatives may visit the class during trimester I.

- To Enroll: This course requires that students have taken and excelled in Drawing: B or better. It is only to the student's benefit to have also taken Advanced Drawing and/or Painting and/or, Watercolor, and/or Photography. Notes: There will be a meeting for prospective students towards the end of the school year to provide detailed information and answer questions.

Business & Technology

Business Strand

Grade 9	Intro to Business HTML Web Design	Finance Pathway Intro to Business Career Planning Personal Finance College Accounting I College Accounting II College Accounting III <hr/> Management Marketing Pathway Intro to Business Business Law Career Planning College Accounting Entrepreneurship Warrior Trading Post International Business Sport Management Yearbook Publications <hr/> Business Technology Pathway Career Planning XHTML Web Design Yearbook Publication
Grade 10	Intro to Business Business Law College Accounting I Entrepreneurship HTML Web Design International Business Yearbook Publications Sport Management	
Grade 11	Business Law Career Planning Seminar College Accounting I, II HTML Web Design Entrepreneurship International Business Warrior Trading Post Personal Finance Sport Management Yearbook Publications	
Grade 12	Business Law Career Planning Seminar College Accounting I, II, III Entrepreneurship HTML Web Design International Business Warrior Trading Post Personal Finance Sport Management Yearbook Publications	

<u>Introduction to Business</u> Grades 9-10/ 1 Trimester/ 2 Credits
<p>Introduction to Business will introduce students to a variety of business concepts. Students will explore economic choices involving wants and needs as governed by scarce resources. Students will also learn about the different types of business organizations. Students will learn about production, marketing, social responsibility, business ethics, and financing a business. Summary assessment includes the creation of a digital portfolio that highlights student's ICT skills used in the business environment.</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>XHTML & Web Design</u> Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>Add a new skill to your repertoire... Plan and create Web pages using XHTML code and Adobe Dreamweaver CC. Explore effective use of color, graphics, and text on the web. Learn to decipher XHTML code on existing Websites to make your pages better. Learn how to use hyperlinks, "mailto" links, anchors & targets, tables, image maps, graphics, CSS, tables and forms to add sizzle to your site. Evaluate existing Web sites to determine target markets, site mission statements, and format design. On-line activities supplement the text and projects in class. Students will utilize the World Wide Web Consortium online to keep up-to-date with current Web standards (www.w3.org).</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>Yearbook Publication</u> Grades 10-12/ 1/2/3 Trimesters/ 2/4/6 Credits</p>
<p>Creating the yearbook requires a great deal of skill, enthusiasm, and dedication. Students develop skills in writing, interviewing, computer layout design, advertising sales, business management, photography, publishing, leadership, and time management. During deadlines, students are required to put in extra time after school and on occasional Saturdays as needed. Photographers are required to do many after school shoots. Students may also use their skills in other WHS publications such as athletic team programs, event programs, and club flyers. This course may be taken more than once for credit. Summary assessment includes the creation of a 246 page annual yearbook that highlights student's advanced publication skills and ICT skills.</p>
<ul style="list-style-type: none"> To Enroll: teacher approval required. Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>International Business</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Most business in the 21st Century is global. There are limitless possibilities for large corporations and small business owners in New Hampshire. Join us to see how cultural differences, finance and currency exchange, technological, social, political and geographic factors affect international business. Explore these topics using current articles, news events, and internet research. Visit cyber sites such as Etiquette International, Federal Reserve and National Geographic. Explore market expansion opportunities in a country of your choice.</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>Business Law</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Learn about contract law. Identify unethical conduct and consequences as it applies to business transactions. Explore your rights and responsibilities with the use and misuse of credit. Learn to recognize unfair advertising practices. Examine employment laws that pertain to you. This class will explore legal issues that exist in the world in which you live and work. Know your rights and responsibilities as well as what laws are there to protect you, your property and your civil liberties. Students may have the opportunity to participate in school store operations, ranging from financial reporting, management, marketing, inventory, and e-commerce.</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>Sport Management</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Times are changing! Some of the biggest players in sports today do not wear a uniform. Learn about the complex and exciting global industry and the possible future it may hold for you. Topics include career development, college degree programs, marketing, management, ethics, finance, business law, facilities, and technology as they relate to the sports industry. Students may have the opportunity to participate in site visits to local sports organizations.</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>Entrepreneurship</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Students will learn about topics important to all successful entrepreneurs such as business plan development, marketing, franchising, risk management, and the Small Business Administration. Students may have the opportunity to work in retail outlets or participate in the school store operations, ranging from financial reporting, management, marketing, inventory, and e-commerce.</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>Personal Finance (CP)</u></p> <p style="text-align: center;">Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>Do you know how much it would cost to pay off a \$5,000 credit card balance making only the minimum payment?...how to find the best auto insurance for the best price?...how to find the best investments to offer you a secure future? Are you getting ready to look for a job, an apartment, apply to college, or finance a car? Someday soon, high school will be behind you. Are you ready to make healthy financial decisions that will affect you for the rest of your life? This class is designed to help you acquire the knowledge and skills that will set you off on a financially sound track toward your future. This course is necessary for every student! Learn to avoid tempting pitfalls that could affect your life for many years and to use resources that best serve you. Summary assessment includes operating a simulation that</p>

mimics the student's personal financial plan and ICT skills

- Notes: This course will fulfill 2 credits of mathematics. This course meets the ICT requirement.

Warrior Trading Post
Grades 10-12/ 1 Trimester/ 2 Credits

Students enrolled in this course will be responsible for the operation of the school store, the "Warrior Trading Post" and the online store. In addition to selling, students will become effective business managers researching markets and products, accounting for profits, and focusing on customer satisfaction. This course requires students to perform additional service time outside of school hours, i.e. parent/teacher conferences, school events.

- To Enroll: Successful completion of a business class.
- Note: This course meets the ICT requirement.

College Accounting I (CP)
Grades 10-12/ 2 Trimesters/ 4 Credits

Students learn to perform manual double entry accounting operations and to apply that knowledge to computerized accounting by using Microsoft Excel and accounting software. Students will gain experience that will help them to be successful in demanding college accounting courses, in office work, and in managing their own small businesses. These skills are necessary for any student planning to major in any business concentration in college. Accounting classes are beneficial to all students. Accounting CP I will be included in the weighted rank. Students may have the opportunity to participate in school store operations, ranging from financial reporting, management, marketing, inventory, and e-commerce.

- Note: This course meets the ICT requirement.

College Accounting II (CP)
Grades 11-12/ 2 Trimesters/ 4 Credits

Continue the study of accounting procedures and begin exploration of corporate accounting. Both manual procedures and computerized work with Microsoft Excel and accounting software will be practiced. This course will further prepare students to enter a business major at the college level and enter college level accounting classes with the skills necessary to succeed. Accounting CP II will be included in the weighted rank. Students may have the opportunity to participate in school store operations, ranging from financial reporting, management, marketing, inventory, and e-commerce.

- To Enroll: Accounting CP I with a grade of C or better or permission of instructor.
- Note: Dual Enrollment Credit Available from Southern New Hampshire University.

College Accounting III
Grade 12/ 2 Trimesters/ 4 Credits

This capstone accounting course emphasizes computerized accounting. Students will venture past the pre-designed problems and solutions into an area of computerized accounting where they will create their own accounting system. This skill will be necessary for a career in accounting and will be extremely beneficial to any college business students. Areas of study will include a deeper investigation of topics such as stockholder's equity, long-term investment and analysis skills, as well as an introduction to the systems of cost accounting. This course is designed to help the serious business student prepare for a future that includes business/accounting in courses in college, as well as providing the tools necessary for any future business owner/entrepreneur. Accounting CP III will be included in the weighted rank. Students may have the opportunity to participate in school store operations to include reporting, management, marketing, inventory, and e-commerce.

- To Enroll: Accounting CP II with a grade of C or better, or recommendation from a business teacher.

Career Planning Seminar
Grades 11-12/ 1 Trimester/ 2 Credits

This seminar will help you research sources of career information, investigate personality traits, identify occupational interests, and develop essential life and employability skills. You will study the art of career planning by discussing important work ethic and goal setting strategies, and researching occupations.

Technology & Engineering Strand

	Exploratory Courses	Follow-Up Courses	Pathways
Grade 9	Design, Create & Innovate Intro to Computer Graphics Intro to Engineering Parts 1 & 2 Robotics I Woodworking I Technology I		Engineering Pathway: Project Lead the Way (PLTW) Suggested courses include: Introduction to Engineering (PLTW) Principles of Engineering (PLTW) STEM Capstone Project
Grade 10	Design, Create & Innovate Architectural Design Intro to Computer Graphics Intro to Engineering Parts 1 & 2 Principles of Engineering Parts 1 & 2 Robotics I Woodworking Technology I Intro to Flight	Architecture Capstone Adv. Computer Graphics Digital Electronics Principles of Engineering Woodworking Technology II Woodworking Technology III	Computer Graphics Pathway Suggested courses include: Intro to Computer Graphics Advanced Graphics 3D Animation & Design Technology Capstone – Computer Graphics
Grade 11	Architectural Design Intro to Computer Design, Create & Innovate Intro to Computer Graphics Intro to Engineering Parts 1 & 2 Principles of Engineering Parts 1 & 2 Robotics I Woodworking Technology I Intro to Flight	Architecture Capstone Adv. Computer Graphics 3D Animation and Game Design Digital Electronics Woodworking Technology II Woodworking Technology III Woodworking Capstone	Woodworking Technology Pathway Suggested courses include: Design, Create & Innovate; Introduction to Woodworking Technology; Woodworking Technology II; Woodworking Technology III; Technology Capstone Woodworking
Grade 12	Architectural Design Intro to Computer Design, Create & Innovate Intro to Computer Graphics Intro to Engineering Parts 1 & 2 Principles of Engineering Parts 1 & 2 Robotics I Woodworking Technology I Intro to Flight	Architecture Capstone Adv. Computer Graphics Graphics Capstone 3D Animation & Design Digital Electronics STEM Capstone Woodworking Technology II Woodworking Technology III Woodworking Capstone	

Design, Create and Innovate
Grades 9-12/ 1 Trimester/ 2 Credits

An introductory course intended to capture students' creative abilities through a variety of hands-on activities and projects. Divided into three four-week thematic units, students will be introduced to graphic design, engineering design, and problem solving through woodworking design. These three units provide the student the prerequisite skills necessary for future elective classes in the Technology and Engineering building. It is a great class to experience multiple opportunities that are available without having to commit to one area before you know what it is all about.

- Note: This course meets the ICT requirement.

Robotics I
Grades 9-12/ 1 Trimester/ 2 Credits

Robotics I will expose students to the current uses of robotics in everyday life. Through the use of hands on activities, students will be faced with a challenge requiring them to work in teams to solve a robotic problem. The students will use problem solving to discover the best solution for the problem. The goal will then be to build a mechanical device, create the proper programs for the device, and debug the hardware and software to achieve the desired outcome. Different levels of robot complexity will be available for all levels of knowledge. It is through the use of problem solving skills that students will gain an exploratory view of the requirements of Robotics, Engineering and STEM experiences.

- Note: This course meets the ICT requirement.

Introduction to Engineering Design Part 1
Grades 9-12/ 1 Trimester/ 2 Credits

Introduction to Engineering Design is the first course in a series of "Project Lead the Way" (PLTW) courses. This class is an opportunity for students to understand the many aspects of engineering technology and to consider the many exciting high paying career opportunities that exist in the field. The class involves theoretical and hands-on problem solving activities. Using 3-D computer modeling software, students learn the design process, and solve design problems to develop, analyze, and create product models.

- To Enroll: Algebra I concurrently enrolled.
- Notes: This course meets the ICT requirement. National Project Lead the Way Curriculum www.pltw.org,

Introduction to Engineering Design Part 2

Grades 9-12/ 1 Trimester/ 2 Credits

Introduction to Engineering Design is the first course in a series of “Project Lead the Way” (PLTW) courses. This class is an opportunity for students to understand the many aspects of engineering technology and to consider the many exciting high paying career opportunities that exist in the field. The class involves theoretical and hands-on problem solving activities. Using 3-D computer modeling software, students learn the design process, and solve design problems to develop, analyze, and create product models.

- To Enroll: Algebra I concurrently enrolled.
- Notes: This course meets the ICT requirement. National Project Lead the Way Curriculum www.pltw.org,
- Successful completion of part 1.

Principles of Engineering (CP) Part 1

Grades 10-12/ 1 Trimester/ 2 Credits

Principles of Engineering is the second course in a series of “Project Lead the Way” (PLTW) courses. This course exposes students to careers in the field of engineering. Students explore various technology systems and manufacturing processes while learning how engineers and technicians use the math, science and technology in an engineering problem-solving process to benefit people. Students will also consider concerns about the social and political consequences of technological change.

- Part I must be taken before Part II.
- Notes: This course meets the ICT requirement. It is recommended that students have Introduction to Engineering as a prerequisite; however, it is not a requirement. National Project Lead the Way Curriculum www.pltw.org,

Principles of Engineering (CP) Part 2

Grades 10-12/ 1 Trimester/ 2 Credits

Principles of Engineering is the second course in a series of “Project Lead the Way” (PLTW) courses. This course exposes students to careers in the field of engineering. Students explore various technology systems and manufacturing processes while learning how engineers and technicians use the math, science and technology in an engineering problem-solving process to benefit people. Students will also consider concerns about the social and political consequences of technological change.

- To Enroll: College level math, or permission of instructor. Part I must be taken before Part II.
- Notes: This course meets the ICT requirement. It is recommended that students have Introduction to Engineering as a prerequisite; however, it is not a requirement. National Project Lead the Way Curriculum www.pltw.org,

<p style="text-align: center;"><u>Intro to Flight</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This course will introduce students to a wide array of aviation topics. Topics covered will include aviation weather, flight characteristics, licensing, airport, airline and airspace operations and government regulation. Students may have the opportunity to participate in an ELO Program with local aviation companies and airport personnel. Students will become familiar with the requirements for obtaining pilot certification, however the course is intended to provide a broad base of knowledge relevant to careers/education in aviation management, aeronautical science, aviation mechanics and more.</p>
<p>Note: This class meets the ICT requirement.</p>

<p style="text-align: center;">Capstone STEM Grade 11-12/ 1 Trimesters/ 2 Credits</p>
<p>Have you ever wished you had the opportunity to design and test a new system, conduct a detailed research project or build a project that falls outside the scope of currently offered courses? In this interactive, multi-disciplinary course, students will have the opportunity to design and construct a project that incorporates the fundamentals of science, technology, engineering and math. The project will be student defined and teacher guided. While conducting their research, students will learn how to write a project proposal, perform literature reviews, perform detailed analysis of data, and present their findings in a manner consistent with the discipline they are pursuing. All participants will have the opportunity to share their outcomes with a larger audience.</p>

<p style="text-align: center;"><u>Architectural Design</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Architectural design is a beginning architectural course designed to expose students to the basics of house design and building. Students will learn about house styles, components of a structure, and how to properly assemble these components. Focus is on residential homes as this information is valuable if you ever plan to buy or build a house in the future. Team skills, problem solving skills, and information sharing will be used frequently in the process of learning all of the above. Upon successful completion of the course, students will have an understanding of architectural terminology, time management skills, individual responsibility, and organizational skills. These skills will allow the student to successfully advance to Advanced Architecture which is a software based way of designing a house as seen at the college level.</p>
<ul style="list-style-type: none"> Note: This course meets the ICT requirement

Introduction to Computer Graphics
Grades 9-12/ 1 Trimester/ 2 Credits

This project based course introduces students to the design process and the principles of design. Emphasis will be placed on problem solving and relating graphic design to communication. Students will study the principles of design, color theory, typography, and will use major design software including Adobe Photoshop and Adobe Illustrator. Design elements of both print and Web publications will be introduced. Students will also explore career options in the graphic design industry.

- Note: This course meets the ICT requirement.

Advanced Computer Graphics
Grades 10-12/ 1 Trimester/ 2 Credits

This project based course will provide an opportunity to create more advanced designs while using state of the art output devices including Large format printers, vinyl cutting machines and digital canvas prints. Students will learn how to integrate Photoshop and Illustrator images into other digital platforms and output to various devices to produce high quality products. Students will also learn many of the advanced features of Photoshop and Illustrator, and how they are used in industry. Students will use skills learned to produce quality projects in both print and web design formats.

- To Enroll: Completion of Intro to Graphic Design.
- Note: This course meets the ICT requirement.

3D Animation & Video Game Design
Grades 11-12/ 1 Trimester/ 2 Credits

In this course students will learn techniques and software that will empower them to create and understand 3D modeling, animation and video game design. You will first learn how to get started with industry standard software, learn to create 3D models and output them to be ready for 3d printing and use in game design. Next, you will focus on creating video game components and games. Level/Map design, video game object design, coding for player movement and gameplay. The final unit of the course will give students the chance to create a video game that can be used on multiple devices (PC, tablet, phone and more).

- To Enroll: Previous Information Communications Technology course or permission of instructor.

Capstone Computer Graphics
Grade 11-12/ 1 Trimester/ 2 Credits

A capstone project gives the advanced student the opportunity to enhance skills in the design and reproduction of graphic communication systems. The student will develop his/her own course of study under the guidance, and subject to the approval of the instructor.

Woodworking Technology I
Grades 9-12/ 1 Trimester/ 2 Credits

This is an entry level course designed to introduce the student to basic woodworking concepts and techniques. No prior woodworking knowledge is required. Students will become familiar with the structure of wood, basic hand and power tools, adhesives, clamping techniques, joinery, and wood finishing. Students will construct useful projects that reflect the skill level of the beginning woodworker. Through the kinds of experiences and knowledge gained in this course, students will begin to develop an appreciation of good design, craftsmanship, orderly procedures, and safe work habits. It is hoped that students will take pride in their individual accomplishments and develop proper work ethics.

- Note: All students must pass a general safety test as well as a safety quiz for each power tool. Students must practice shop safety at all times to remain in the course.

Woodworking Technology II
Grades 10-12/ 1 Trimester/ 2 Credits

This is a follow-up course to Woodworking Technology I designed to allow the student to explore woodworking in greater depth. Instruction focuses on many new methods and techniques to construct projects of increased complexity and precision. New tools, as well as using tools in more advanced ways, will be learned along with more complex joinery, assembly techniques, reading plan drawings, and use of various types of hardware. High quality, craftsmanship and safety are emphasized and expected in the completion of all projects. Possible opportunities for future employment in the woodworking industries are also explored. The experiences and knowledge gained in this one trimester course will allow the student to develop confidence, craftsmanship, pride in their individual work, and an appreciation of quality tools, machines, and wood products.

- To Enroll: Introduction to Woodworking Technology I with a grade of "C" or better.
- Must have completed Woodworking Technology I in person and had the hands-on project experience, not in a hybrid or remote model.
- Any student who took Woodworking Technology I during the 2020-2021 school year must repeat that class for the hands-on project experience before enrolling in this course.

Woodworking Technology III
Grades 11-12/ 1 Trimesters/ 2 Credits

This course is designed for the student who really enjoys woodworking and wants to take their skills to the next level. Students will build upon their knowledge and skills developed in prior woodworking courses to complete projects that require new techniques and processes not previously learned. Having had two prior semesters of woodworking under their belts, students will be expected to work safely and more independently while drawing upon their previous knowledge and experience to complete projects.

- To Enroll: Woodworking Technology I & II with a "C" or better.
- Must have completed Woodworking Technology I and Woodworking Technology II in person and had the hands-on project experience, not in a hybrid or remote model.
- *Any student who took Woodworking Technology I and/or Woodworking Technology II during the 2020-2021 school year must repeat that class for the hands-on project experience before enrolling in this course.

Capstone Woodworking
Grades 11-12/ 1 Trimester/ 2 Credits

A capstone project gives the advanced woodworking student the opportunity to enhance skills towards mastery level in the design and production of a wood project of their choice. The student will develop his/her own course of study under the guidance of, and subject to the approval of, the instructor. The emphasis of this course is for the student to function as independently as possible while completing his/her project.

- To Enroll: Must have completed Woodworking Technology I, Woodworking Technology II, Woodworking Technology III in person and had the hands-on project experience, not in a hybrid or remote model.
- *Any student who took Woodworking Technology I, Woodworking Technology II, and Woodworking Technology III during the 2020-2021 school year must repeat the class for the hands-on project experience before enrolling in this course.

Capstone Architecture
Grades 11-12/ 1 Trimester/ 2 Credits

A capstone project gives the advanced architecture students the opportunity to enhance skills towards mastery level in home building & design.

- To Enroll: Students must have completed Architectural Design.

Extended Learning Opportunities (ELOs)

ELOs are learning experiences that happen outside of the traditional classroom setting. The purpose of an ELO is to provide an educational experience that is meaningful and relevant by meeting the student's individual learning style, talents, and interests. ELOs can involve community partners and WHS staff members as mentors. Please see the [ELO website](#) for more details.

<p style="text-align: center;">Extended Learning Opportunity (ELO) Grades 9-12/ 1-2 Credits per Trimester ELOs can span 1 trimester, 2 trimesters or an entire school year</p>

At WHS, there are several different types of ELOs and credit can range from 1 to 2 credits per trimester.

- **Independent Coursework** is helpful for students who would like to continue to take a repeatable course but cannot fit the course into their schedule.
- **Career Exploration** is an opportunity for a student to identify and investigate an occupation or career path. This learning experience requires the student to conduct independent research, informational interviews with professionals and job shadows when appropriate.
- **Advanced Study** is an experience for students who complete a course or series of courses and would like to continue to advance their learning in that subject area when there isn't a scheduled course available.
- **Internship** is a temporary, unpaid, position where a student is paired with a professional in the community (A WHS staff member could serve in this role) in order to gain practical experience in an occupation or profession.
- **Work Based Learning (WBL)** is an opportunity for students to earn credit for work outside of school. This is a unique experience that is designed to link school curriculum with the world of work. In addition to documenting their time at work, students connect with the ELO Coordinator regularly to work on job skills, habits, and attitudes conducive to employment success as well as opportunities for career advancement.
- **Project Based Learning (PBL)**, is a learning experience where the student gains a deeper knowledge and broader skills by investigating a topic of their choice. Students actively explore real-world problems and respond to complex questions and challenges. This will often require the student to draw upon previous coursework and apply it in a very practical way to their project.

Assessment will be based on competencies dependent on the type and subject of ELO the student is enrolled in.

All ELO experiences are composed of the following components:

- **Reflection:** A student participating in an ELO analyzes and demonstrates an understanding of his/her learning experience through reflection.
- **Research:** The student applies the ongoing research of the ELO experience to the evaluation and presentation of issues that arise, and the decisions made as their experience progresses.
- **Product:** The ELO student demonstrates his/her gained knowledge and applies an understanding of what they learned by developing a tangible product that relates to his/her interests, skills, and abilities.
- **Presentation:** The student clearly communicates the entire ELO experience, including both the process and the learning, in a manner that is appropriate to the experience and the

audience.

A letter grade will be reported on the report card and transcript.

Please see the [ELO website](#) for more details or email elo@warriors.winnacunnet.org

- To Enroll: Students can sign up for an ELO during the course registration process but details cannot be finalized until the following process is complete:
 - Fill out the [ELO Request Form](#)
 - Participate in an initial meeting with an ELO Coordinator to discuss your request
 - Complete the [ELO Plan Proposal Form](#)
 - Complete the **ELO Agreement** which requires approval from a parent/guardian, school counselor, administrator, and, if applicable, a community mentor, case manager, and/or mentor teacher.

ELO: Service Aide
Grades 11-12/ 1 Trimester/ 1 Credit

Service Aides are learning experiences where students provide assistance to a classroom teacher. Duties can include, but are not limited to, assisting in the classroom, technology support, creating & maintaining visual classroom displays and lesson preparation. This experience is an especially valuable experience for students interested in a future career in education.

Service Aides are Pass/Fail experiences

- To Enroll: Students can sign up for an ELO during the course registration process but details cannot be finalized until the following process is complete:
 - Fill out the [ELO Request Form](#)
 - Participate in an initial meeting with an ELO Coordinator to discuss your request
 - Complete the [ELO Plan Proposal Form](#)
 - Complete the **ELO Agreement** which requires approval from a parent/guardian, school counselor, service aide teacher and administrator.

English

	Required Courses	Elective Courses
Grade 9	Freshman English	Broadcast Television/ WHTV Filmmaking Intro to Media Journalism Intro to Theatre Journalism: The Winnachronicle Public Speaking
Grade 10	American Literature (ES, CP, H) or American Studies	Broadcast Television/ WHTV Creative Writing Filmmaking Intro to Media Journalism Intro to Theatre Journalism: The Winnachronicle Public Speaking Sci-fi/Fantasy Theatre II
Grade 11	World Literature (ES, CP, H)	Broadcast Television/ WHTV Creative Writing Filmmaking Intro to Media Journalism Intro to Theatre Journalism: The Winnachronicle Poetry and You Public Speaking Sci-fi/Fantasy Theatre II
Grade 12	Senior English Writing (CP) Senior English Reading (CP) or College Composition (H) or Advanced Placement English Literature & Composition or Senior English (ES)	Broadcast Television/ WHTV Creative Writing Filmmaking Intro to Media Journalism Intro to Theatre Journalism: The Winnachronicle Poetry and You Public Speaking Sci-fi/Fantasy Theatre II

Freshman English

Grade 9/ 3 Trimesters/ 6 Credits

The freshman English course is a heterogeneous course designed to introduce Winnacunnet students to high school English through a broad study of English, language, and literature. It has been designed with two principal aims: 1) to teach students to use the language effectively in expressing ideas; 2) to teach them to understand the language as others use it to communicate their thoughts. These two aims will be used to address the essential question of the course: "What determines who we are?" Included in the course will be an introduction to the variety of genres of literature, the reinforcement of literary terms, as well as usage of proper writing conventions, composition, vocabulary development, and speech. Study skills will include test preparation tips, time-management techniques, and familiarity with information retrieval and research.

American Literature

Honors & College Preparatory/ Grade 10/ 2 Trimesters/ 4 Credits

Essential Studies/ Grade 10/ 3 Trimesters/ 6 Credits

American Literature will survey American writers, focusing on the American Dream through various eras. Students will continue to develop a wide range of reading, writing, speaking and listening skills begun in their freshman English course.

American Studies College Preparatory (CP)

Grade 10/ 4 Trimesters/ 8 Credits

What does it mean to be an American? What is the American experience? How are these ideals depicted in literature? How do historical events affect literature and vice versa? These are only some of the questions we will explore throughout our two trimesters together. Throughout American history, authors have voiced their American experience and views through the eyes and voices of their literary characters. American Studies is designed to connect the literary masterpieces and movements that define America with historical events, issues, and ideals, and explore the cause and effect relationship between the two disciplines.

- To Enroll: Successful completion of English I and Global Studies.
- Note: Students who successfully complete this class will fulfill the American Literature, U.S. History I and U.S. History II diploma requirements.

World Literature H/ CP/ ES

Grade 11/ 2 Trimesters/ 4 Credits

Through writings of authors from around the world, students will study the common literary styles, philosophies, and behaviors of humankind. Juniors in this course will read, discuss, and write about literature from Europe to the Far East and have opportunities to explore cultures of their own choosing through self-directed reading. This course is also designed to teach students research skills and offers opportunities to put those skills to use. Students will practice data collection, organization, proper use of mechanics, and methods of avoiding plagiarism. Students will demonstrate their understanding of the essential questions of the course through a variety of assessments.

<p style="text-align: center;"><u>Senior English Reading CP</u> Grade 12/ 1 Trimester/ 2 Credits</p>
<p>Through a consideration of different writing genres and essential skills, students will explore classic and contemporary literature and how it depicts or relates to modern societal issues. Students will read class texts as well as independent reading selections to polish their reading skills before employing those skills post graduation. These skills will be demonstrated through a number of formative assignments as well as two required summative assessments, a formal analytical essay and media project.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion of Freshman English, American Literature and World Literature.

<p style="text-align: center;"><u>Senior English Writing CP</u> Grade 12/ 1 Trimester/ 2 Credits</p>
<p>Through a consideration of different writing genres and essential skills, students will polish their writing skills for post high school endeavors. Required elements of the course will include expository writing, creative writing, and professional writing and communication. Students will also have the opportunity to demonstrate their writing skills through student driven activities and assignments as well as self-directed reading.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion of Freshman English, American Literature and World Literature.

<p style="text-align: center;"><u>College Composition Honors</u> Grade 12/ 2 Trimesters/ 4 Credits</p>
<p>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. This course places reading at the core of the writing curriculum to stimulate thought, research ideas, and techniques, and serve as writing models.</p>
<ul style="list-style-type: none"> • To Enroll: Teacher recommendation required. • Notes: Great Bay Community College Credit available through Running Start. If the student elects college credit, the cost to enroll in a Running Start course is \$150 per course. This course requires students to take the Accuplacer test, fee of \$15. This course requires summer reading.

<p style="text-align: center;"><u>AP English Literature and Composition</u> Grade 12/ 3 Trimesters/ 6 Credits</p>
<p>The primary goal of the senior AP Literature & Composition class is to develop abilities as independent readers and writers through a college-level course during the senior year. Students who successfully complete the College Board Advanced Placement Exam in May can qualify for up to one year's credit in</p>

English at their chosen colleges the following year. It is expected that all students take this test. The focus of this class is the study of man as a social and/or anti-social being through an analysis of classical and modern literature. The class is both demanding and intellectually stimulating. It places emphasis upon developing independence of thought and mature habits of critical thinking with an added emphasis of applying these to critical reading and written analysis. Classroom discussion and active participation are essential.

- To Enroll: Teacher recommendation required.
- Note: This course requires summer reading.

Creative Writing

Grades 10-12/ 1 Trimester/ 2 Credits

Creative Writing is a class designed for students who wish to improve their writing abilities and are willing to commit to practice for the duration of the course. Beginning with the development of an individual voice, students will practice writing on a daily basis. Writing exercises and assignments will range from development of characterization to the construction of a short story. Students will be required to compile a writing portfolio as a culminating assessment at the end of the trimester.

Sci-fi/Fantasy

Grades 10-12/ 1 Trimester/ 2 Credits

Through a survey of science fiction and fantasy media, students will explore the common themes, motifs, and other tropes unique to this genre. Students will investigate the way these stories fit into a larger cultural, aesthetic, and intellectual context. Through analysis and creation of stories and art that fits into this genre, students will develop an understanding of creativity used in a novel and innovative way, helping provide insight into their own experience as well as the multitude of experiences around them. These skills and perspectives will be practiced and demonstrated through a number of formative and summative assignments across a single trimester.

Poetry and You

Grades 11-12/ 1 Trimester/ 2 Credits

The purpose of this course is to look at poetry, both past and present, through many different lenses. This might be through a feminist critique, understanding the author in a more profound way, or examining the themes of the poem through different forms of art. The purpose of this class is not to decipher poetry. But rather, to take each poem and ask the challenging question, "How does this relate to me, my life, my emotions, and my experiences."

Introduction to Media Journalism

Grade 9-12/ 1 Trimester/ 2 Credits

This course will introduce the student to the basics of print publications and video broadcast. This will include recognizing and gathering news; writing news, features, and sports; creating leads; interviewing

sources; using quotations; and editing copy. Students will practice straightforward presentation; simple and direct sentences, use of many sources, and full development of stories in both print and television broadcast form. Journalistic ethics will be covered and applied as story production goes on. This course provides a solid foundation to continue work on any of the Winnacunnet publications and broadcasts to include the school yearbook, newspaper, broadcast television, and literary magazine.

- Note: This course meets the ICT requirement.

Journalism: The Winnachronicle
Grades 9-12/ 1-3 Trimesters/ 2-6 Credits

Students do all newsgathering, photography, writing, graphics, advertising contacts, computer layout and distribution of the Winnachronicle. Although students may elect this course for 1, 2 or 3 trimesters, the paper needs individuals who will be on the staff for two or three full years in order to develop some complex skills. This is a rigorous course designed for those students who have a career related interest in journalism. Students who wish to be considered for editorial positions must elect this course for three trimesters, and they will be asked for time commitments after school.

- To Enroll: Teacher approval required.

Public Speaking
Grades 9-12/ 1 Trimester/ 2 Credits

The art of speaking comfortably before large and small audiences is the subject of this course. Knowledge of body language, anticipation of an audience response, and the ability to communicate orally will be taught. The course is designed to increase students' public speaking skills. The course will require students to speak in front of the class regularly with focus on eliminating performance anxiety, creating organized and effective speeches, and developing delivery skills.

Introduction to Theatre
Grades 9-12/ 1 Trimester/ 2 Credits

This class will explore three major areas of drama: pantomime, voice, and improvisation. It is designed to enhance interpersonal skills by creating an awareness of the qualities of good speaking while enabling the student to increase self-confidence. The class will focus on the "actor" in everyone. Students will begin by learning and building upon the basic tools of acting. Their creative minds will be challenged as they develop these skills by exploring the unknown and staging a one-act play.

Theatre II: Theatre Production
Grades 10-12/ 1 Trimester/ 2 Credits

Did you like Introduction to Theatre? You'll love Theatre Production! We will examine the inner workings of putting on a production. Course will explore the technical aspects of theatre, set design, marketing strategies, costuming, and advanced acting skills. We will begin with a brief overview of the theatre, and the course will culminate in a final, student-driven production.

- To Enroll: Successful completion of Introduction to Theatre with a "C" or better.

Filmmaking
Grade 9-12/ 1 Trimester/ 2 Credits

Filmmaking is a course that will focus on short narrative filmmaking. In this project-centered class, students will develop and work on a variety of video-based projects independently or in small groups. They will develop and create scripts, storyboards, shoot, edit, market and screen their work. Students will focus on single lens camera filmmaking skills such as composition, special effects, advanced editing techniques, sound design and scene construction. Class size is limited to 18.

- Note: This course meets the ICT requirement.

Broadcast Television/ WHTV
Grade 9-12/ 1-3 Trimesters/ 2-6 Credits

This course gives motivated students an opportunity to experience firsthand one of the most powerful mass media formats, television. Working in a video editing lab and a three-camera studio, students will dive into the real world cycle of television production. Participants in this course will be responsible for creating the weekly programming viewed by the school and web community. They will learn how to manage all aspects of the TV studio as they continue to develop their understanding of the elements of journalistic broadcast production and the techniques of single camera electronic news gathering. As this course can be taken multiple times, requirements will vary according to individual student experience.

Family and Consumer Sciences

Grade 9	Child Growth & Development I Fashion I Foods & Nutrition I	Human Development and Education Pathway: Child Growth & Development I Child Growth & Development II Exploring Teaching Developmental Psychology
Grade 10	Child Growth & Development I, II Fashion II Fashion I Housing & Interior Design Foods & Nutrition I, II Foods & Nutrition III International Foods	Foods & Nutrition Pathway: Foods & Nutrition I Foods & Nutrition II Foods & Nutrition II International Foods
Grades 11 & 12	Child Growth & Development I, II Fashion II Developmental Psychology Exploring Teaching Fashion I Foods & Nutrition II Foods & Nutrition III Housing & Interior Design International Foods	Design Pathway: Fashion I Fashion II Housing & Interior Design

<u>Foods and Nutrition I</u> Grades 9-10/ 1 Trimester / 2 Credits
<p>You will enjoy the experience of preparing a wide variety of foods using different methods that will prepare you for a healthy and self-sufficient future. This classroom and laboratory course introduces the importance of healthy eating, nutrition, and the basic principles of food preparation. You will become better aware of nutrition facts, cooking techniques, equipment use, kitchen management, safety and sanitation.</p>
<ul style="list-style-type: none"> Note: We attempt to accommodate students with food allergies. Students and parents should be aware that wheat, peanuts, milk, and egg ingredients are used. This class can be repeated with teacher recommendation.

<p style="text-align: center;"><u>Foods and Nutrition II</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>A continuation of Foods and Nutrition I, this classroom and laboratory course will explore further cooking proficiencies and nutritional practices. The emphasis will be on planning and preparing healthful and nutritionally sound meals.</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Foods & Nutrition I or International Foods. • Note: We attempt to accommodate students with food allergies. Students and parents should be aware that wheat, peanuts, milk, and egg ingredients are used in this class.

<p style="text-align: center;"><u>Foods and Nutrition III</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>A step-up from Foods & Nutrition II, this classroom and laboratory course is designed to be a more in-depth study of advanced food preparation and presentation techniques (ex. cake decorating, garnishing), nutrition, and food science.</p>
<ul style="list-style-type: none"> • To Enroll: Completion Foods & Nutrition I & II or International Foods with teacher recommendation. • Note: We attempt to accommodate students with food allergies. Students and parents should be aware that wheat, peanuts, milk, and egg ingredients are used in this class.

<p style="text-align: center;"><u>Fashion I</u> Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>Fashion I is an introductory course designed for students that wish to learn techniques used for basic construction skills for machine sewing. This course introduces students to basic sewing and pressing equipment and introductory level project construction techniques. Students will complete several projects and will be responsible for purchasing some of their own supplies. No previous experience is necessary.</p>

<p style="text-align: center;"><u>Fashion II</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Fashion II is designed to further develop construction skills. This course enables students to develop a greater understanding of fashion details and the elements and principles of design. Students will continue to use the traditional sewing machine and also be introduced to and construct projects on the serger and computerized embroidery machine. Students will complete several projects and will be responsible for purchasing some of their own supplies. This class may be taken for 1, 2 or 3 trimesters.</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Fashion I • This class may be taken for 1, 2, or 3 trimesters.

Child Growth and Development Part I

Grades 9-12/ 1 Trimester/ 2 Credits

The focus of this class is to study the development of children from conception through infancy. Emphasis will be on preparing readiness for and principles of parenting, prenatal development and care, childbirth, infant development, and children's rights.

Child Growth and Development Part II

Grades 9-12/ 1 Trimester/ 2 Credits

The focus of this class is on growth and development of children from the toddler stage through age four. Parenting, meeting the child's needs of health, safety, play, personality development, and dealing with exceptional children represent some of the topics covered.

- To Enroll: Successful completion of Childhood Growth and Development Part I.

Housing and Interior Design

Grades 10-12/ 1 Trimester/ 2 Credits

Learn about traditional American arts and architecture, contemporary housing, interior design principles, spatial organization, elements of design, furniture styles and arrangement, color and texture. All students will be required to create a design board that demonstrates mastery of the concepts studied.

Developmental Psychology

Grades 11-12/ 1 Trimester/ 2 Credits

This look at human behavior will deepen understanding of oneself, others and society. Topics focus on the science of psychology, the major theorists, how the brain works, interpersonal relationships, abnormal psychology, and identity development through reading and discussion.

- Open to grades 11-12.

Exploring Teaching

Grades 11-12/ 1 Trimester/ 2 Credits

Education is one of the largest industries in our country with over 11 million jobs. Over the next 15 years, as a significant number of educators reach retirement age, the demand for highly qualified teachers and administrators will surpass the current supply. Learn about careers in the education field by conducting interviews, observing classroom teachers, and engaging in research. Plan and practice teach a sample lesson plan. Students interested in a follow-up experience may want to participate in an internship.

International Foods

Grades 10-12/ 1 Trimester/ 2 Credits

Grab your suitcase and your recipes and get ready to sample foods from around the world. This course gives students an opportunity to plan menus and learn more advanced cooking skills while preparing and sampling foods from different countries and regions of the US. Our first stop may be in France for crepes, the next Spain for paella and then on to China for fried rice. In addition to preparing and sampling foods, students will also explore the respective cultures and customs of the different countries and regions of the US.

- Note: Some cooking experience is highly recommended (having an understanding of kitchen tools and measurement is extremely helpful).

Freshman Seminar

Freshman Seminar Grade 9/ 1 Trimester/ 2 Credits
<p>The Freshman Seminar program aims to transition students from 8th to 9th grade by laying the foundation for success in high school. The course objectives for Freshman Seminar are to ease the transition from our 5 middle schools and students from other communities to Winnacunnet High School, foster academic success, involve students in planning their personal learning experience, promote a positive WHS identity for each student, empower students with information that supports academic and social decision making, and address the physical, social, and emotional well-being of each student.</p>
<ul style="list-style-type: none">• Note: Freshman Seminar classes will be 18 – 20 students and one teacher for twelve weeks (first trimester). Students will be assessed based on the completion of a competency checklist.

Freshman Seminar Peer Leader Grades 11-12/ 1 Trimester/ 2 Credits
<p>Give back to your school and be a peer leader. Students selected will be expected to assist the freshman seminar teacher on a daily basis every day for a full block first trimester. Expectations will include your active participation in all activities, a willingness to get to know each freshman in your assigned group, and be a positive role model. All interested students must complete an interview, and if selected be able to schedule this class first trimester. Students will be expected to attend training prior to the first day of school in August, date to be determined.</p>
<ul style="list-style-type: none">• To Enroll: Teacher recommendation required.

Marine Corps Junior ROTC

Exploratory Courses	Follow-up Courses	Advanced Courses
Leadership 1/PE MCJROTC Leadership 2 MCJROTC Advanced Drill I Match Competition I	Leadership 3/PE MCJROTC Leadership 4/PE MCJROTC Advanced Drill II Match Competition II	Leadership 5 MCJROTC Leadership 6/PE MCJROTC Leadership 7 MCJROTC Leadership 8 MCJROTC Advanced Drill III

Leadership Education 1/PE Grades 9-12/ 1 Trimester/ 2 Credits
<p>This course is taught by instructors who are retired United States Marines. The program emphasizes citizenship, leadership, and character development, while focusing on motivating young adults to fulfill their potential while developing self-confidence and responsibility. This course teaches students respect for authority, peers, and self. Students will be challenged as responsible members of a team –working effectively to achieve a common goal. They will learn to have an appreciation for physical and mental fitness, proper health care, inspection protocol, drill and ceremonies, military organization, history, and customs. Learning will take place in a nontraditional and experiential learning environment.</p>
<ul style="list-style-type: none"> Note: LE 1 will fulfill 2 credits of physical education.

Leadership Education 2 Grades 9-12/ 1 Trimester/ 2 Credits
<p>This course is a continuation of Leadership Education 1 with emphasis on leadership development and personal responsibility. Curriculum topics include physical fitness, inspection protocol, drill and ceremonies, and military organization. Classroom lessons coupled with practical application provide students with experiential based learning.</p>
<ul style="list-style-type: none"> To Enroll: Grade of “C” or higher for last LE class.

Leadership Education 3/PE
Grades 10-12/ 1 Trimester/ 2 Credits

A continuation of Leadership Education 2, this course teaches students to respect themselves and challenges them to be responsible for their own health and physical welfare. Students will learn about the importance of: physical and mental health, proper health care, reducing health risks, living a healthy lifestyle, and self-advocacy. Learning will take place in and out of the classroom – providing a non traditional and experiential based learning environment.

- To Enroll: Grade of “C” or higher for last LE class.
- Note: LE 3 will fulfill 2 credits of physical education.

Leadership Education 4
Grades 10-12/ 1 Trimester/ 2 Credits

A continuation of Leadership Education 3 with emphasis on advanced leadership tenets. Curriculum topics include physical fitness, marksmanship, drill and ceremonies, and military organization. Classroom lessons coupled with practical application provide students with experiential based learning.

- To Enroll: Grade of “C” or higher for last LE class.

Leadership Education 5
Grades 11-12/ 1 Trimester/ 2 Credits

A continuation of Leadership Education 4 with emphasis on advanced leadership tenets. Curriculum topics include physical fitness, marksmanship, drill and ceremonies, and military organization. Leadership roles and positions are assigned so the students may begin to practice the leadership principles being taught. Classroom lessons, coupled with practical application, provide students with experiential based learning.

- To Enroll: Grade of “C” or higher for last LE class and approval of Senior Marine Instructor.

Leadership Education 6/PE
Grades 11-12/ 1 Trimester/ 2 Credits

A continuation of Leadership Education 5 with emphasis on advanced leadership tenets. Curriculum topics include physical fitness, marksmanship, drill and ceremonies, and military organization. Leadership roles and positions are assigned so the students may begin to practice the leadership principles being taught. Classroom lessons coupled with practical application provide students with experiential based learning.

- To Enroll: Grade of “C” or higher for last LE class and approval of Senior Marine Instructor.
- Note: LE 6 will fulfill 2 credits of physical education.

Leadership Education 7
Grades 12/ 1 Trimester/ 2 Credits

The fourth year emphasizes self-study, readings and assistance to the Senior Marine Instructor and Marine Instructor, and is the year when cadets really bring together all their previous learning experience in the MCJROTC program. Senior students will conduct formations and inspections, as well as supervise certain training events with younger cadets. They are expected to teach at least one class during the semester, under the supervision of the Senior Marine Instructor, complete one book with a book report, and plan, organize and supervise a volunteer project. This practical application will provide students with experiential based learning.

- To Enroll: Grade of “C” or higher for last LE class and approval of Senior Marine Instructor.

Leadership Education 8
Grades 12/ 1 Trimester/ 2 Credits

A continuation of Leadership Education 7 with emphasis on advanced leadership tenets. Students will be assigned leadership assignments that continue to assist both students and instructors. They will also be tasked to assist with curriculum topics such as physical fitness, marksmanship, drill and ceremonies, and military organization. This practical application will provide students with experiential based learning.

- To Enroll: Grade of “C” or higher for last LE class and approval of Senior Marine Instructor to.

Advanced Drill
Grades 9-12/ After School/ 1 Credit

Students will learn advanced **unarmed and** armed drill routines in both dual and platoon formats. Students will be evaluated on originality, effort and execution of drill movements and routines.

- To Enroll: Open to all Winnacunnet students. Signed team agreement and parental permission slip and approval of Marine Instructors required prior to enrollment.
- This class may be taken multiple times for credit.

Match Competition Skills
Grades 9-12/ After School/ 1 Credit

This class will focus on the proper positions, techniques, and safety guidelines used during match competitions. Marksmanship safety and basic marksmanship skills will be taught. Proper use, care, and cleaning of all related match equipment will also be included.

- Note: Class size limited to 12 students.
- To Enroll: Grade of “C” or higher for last LE class and approval of Senior Marine Instructor.
- This class may be taken multiple times for credit.

The Marine Corps Youth Physical Fitness Program (YPF)

All students that qualify to perform physical training will be required to participate in the YPF program in all leadership Education courses. Through the National Youth Physical Fitness Program and the National High School Physical Fitness Championships, the Foundation has been able to help thousands of kids turn their lives around. Many have never had to meet a challenge, attain a goal, or have the opportunity to dream a dream.

The National Youth Physical Fitness Program encompasses students from kindergarten and elementary school, through junior and senior high school and college. The program is designed to complement, not replace, existing curriculum and to be easily implemented in any school situation. Students are tested in five basic exercises (sit-ups, pull-ups, push-ups, standing broad jump, and 300yd shuttle run) and are awarded scores indicative of their general fitness level.

This program provides a means for the Marine Instructors to actually measure the fitness level of participating students throughout the school year. More importantly though, this program provides hope and offers our students an opportunity to become part of something bigger than themselves, an opportunity to be challenged, and an opportunity to grow as individuals. It teaches students to respect their bodies and helps them build and maintain a personal resistance to drugs, alcohol and tobacco.

Mathematics

Mathematics Pathways				
	Essential Studies (ES)	Preparatory	Accelerated (Acc)	Honors / Advanced Placement (H) / (AP)
Grade 9	Math I ES	Algebra I Prep	Algebra I Acc	Geometry H
Grade 10	Math II ES	Geometry Prep	Geometry Acc	Algebra II H
Grade 11	Math III ES (Equivalent Algebra I)	Algebra II Prep	Algebra II Acc	Pre-Calculus H
	Math Electives			
	Intro to Programming: Android AP Computer Science Principles Contemporary Mathematics Design Code Build AP Computer Science Intermediate Algebra Finite Mathematics (CP)		Probability and Statistics (CP) Pre-Calculus (CP) AP Statistics Topics in Applied College Math (TAC Math) (CP) Calculus (CP) AP Calculus AB AP Calculus BC	

<u>Math I ES</u> Grade 9/ 3 Trimesters/ 6 Credits
<p>Students who need remedial instruction using arithmetic skills involving whole numbers, fractions, and decimals, and working with percent, measurement, estimation, graphs, and problem solving will be recommended to this course. Topics will also include integers, introduction to variables and equation solving, introductory geometry, and consumer applications. Students successfully completing this course will take Math II in grade 10. With teacher recommendation a student can be placed in Algebra I in grade 10.</p>
<ul style="list-style-type: none"> Note: The sequence of Math I, II and III is available only to students with teacher recommendation. Completion of Math III is equivalent to the study of one year of algebra. To Enroll: Teacher and Team Recommendation.

Algebra 1 Prep

Students scheduled for Algebra I Prep Part I can be scheduled for Parts II and III in the same year. This is a series of three courses which satisfy the state of New Hampshire's algebra graduation requirement. The level of these courses is appropriate for students planning to attend a four-year liberal arts degree program or a two-year associate's degree program. Students in these courses are encouraged to use a calculator on some tasks.

Part I

Grades 9-10/ 1 Trimester/ 2 Credits

This course is the first in the Algebra I Prep series. In this course students will study algebraic topics such as operations with signed numbers, evaluating expressions, solving linear equations and inequalities, and ratios and proportions.

Part II

Grades 9-10/ 1 Trimester/ 2 Credits

This course is the second in the Algebra I Prep series. In this course students will study algebraic topics such as graphing linear equations, and inequalities, systems of linear equations and inequalities, and topics in both probability and statistics.

Part III

Grades 9-10/ 1 Trimester/ 2 Credits

This course is the third and final course in the Algebra I Prep series. In this course students will study algebraic topics such as rules of exponents, factoring and basic operations with polynomials. Functions, graphs, and transformations are also studied with special emphasis given to linear, quadratic, absolute value, and reciprocal functions.

- Note: A basic scientific calculator is required for this course (A Casio FX 300 or a TI-30 X is recommended).

Algebra I Accelerated

Grade 9/ 3 Trimesters/ 6 Credits

This is an accelerated course intended for students who plan to attend a four- year college. Traditional algebra topics will be stressed including quadratic functions. In addition, selected topics from probability, statistics, and geometry will be included. Students should expect a rigorous pace with assignments every night.

- To Enroll: "B" or better in 8th grade Pre-Algebra with teacher recommendation.
- Note: Students who took Algebra I in grade 8 may repeat Algebra I in high school for high school credit.

<p style="text-align: center;"><u>Geometry Prep Pt 1/Pt 2</u> Grades 10-12/ 2 Trimesters/ 4 Credits</p>
<p>Geometry Preparatory is a “must-have” for students who plan to attend a four- year college. This course will prepare students for the SAT I exam that must be taken by the fall of a student’s senior year. Topics will include plane and coordinate geometry, geometric figures in two and three dimensions, congruence and similarity, trigonometry of the right triangle, and transformational geometry.</p>
<ul style="list-style-type: none"> • To Enroll: “C” or better in Algebra I with teacher recommendation.

<p style="text-align: center;"><u>Geometry Accelerated</u> Grades 10-12/ 2 Trimesters/ 4 Credits</p>
<p>This is an accelerated course intended for students who plan a future career in math/science related fields. Students should possess good analytical skills and the ability to learn at an accelerated pace as demonstrated by successful completion of Algebra I. Topics will include plane and coordinate geometry, geometric figures in two and three dimensions, trigonometry of the right triangle, laws of sine and cosine, transformational geometry, and the study of proof.</p>
<ul style="list-style-type: none"> • To Enroll: “C” or better in Algebra I (Acc) with teacher recommendation.

<p style="text-align: center;"><u>Geometry Honors</u> Grades 9-10/ 3 Trimesters/ 6 Credits</p>
<p>This course is designed for students who are highly skilled in mathematics, can learn at a rigorous pace, and possess outstanding analytical skills and intellectual curiosity. Students should have a strong interest in mathematics. Students recommended for placement in this course must have successfully completed a full year of study in Algebra I. Topics studied in this course will include plane and coordinate geometry, trigonometry of the right triangle, laws of sine and cosine, measurement of geometric figures in two and three dimensions, similarity, transformational geometry, and the study of proof.</p>
<ul style="list-style-type: none"> • To Enroll: Teacher Recommendation, above average achievement in Algebra I and results of the 8th grade final.

<p style="text-align: center;">Math II ES Grades 10-11/ 3 Trimesters/ 6 Credits</p>
<p>This course will reinforce the topics covered in Math I. New topics will include working with integers and expressions, solving and graphing linear equations, statistics, probability, and coordinate and non-coordinate geometry. Students successfully completing this course will take Math III the following year.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion of Math I. • Note: A scientific calculator is required for this course.

<p style="text-align: center;"><u>Algebra II Prep</u> Grades 11-12/ 3 Trimesters/ 6 Credits</p>
<p>This is a course for students planning to attend a four-year liberal arts degree program and/or two-year Associate degree program. Topics include operations with polynomials, quadratic, rational and radical functions, probability, statistics and sequences and series. Students who choose to continue their study of mathematics will do so in TAC Math or Finite Math..</p>
<ul style="list-style-type: none"> • To Enroll: “C” or better in Algebra I - Part III with teacher recommendation. • Note: A graphing calculator is required for this course.

<p style="text-align: center;"><u>Algebra II Accelerated</u> Grades 10-12/ 3 Trimesters/ 6 Credits</p>
<p>This course is designed to prepare a student for Precalculus. The primary goal of the course is an in-depth study of polynomial, radical, rational, exponential and logarithmic functions as well as the equations and problem solving strategies associated with them. In addition, sequences and series, and probability and statistics will be studied.</p>
<ul style="list-style-type: none"> • To Enroll: “C” or better in Algebra I (Acc) & Geometry (Acc) with teacher recommendation. • Note: A graphing calculator is required for this course.

<p style="text-align: center;"><u>Algebra II Honors</u> Grades 10-12/ 3 Trimesters/ 6 Credits</p>
<p>This course will cover the same array of topics as in Algebra II (Acc) but will differ in both pace and depth. This is a rigorous course intended for students with future interest in mathematics and/or science careers.</p>
<ul style="list-style-type: none"> • To Enroll: “B” or better in Geometry Honors with teacher recommendation. • Note: A graphing calculator is required for this course.

<p style="text-align: center;">Math III (ES) Grades 10-12/ 2 Trimesters/ 4 Credits</p>
<p>This course reinforces algebraic topics from previous study and continues the study of equation solving, linear functions and transformations of nonlinear functions. If time allows, coding using graphing calculators will be implemented. Students will have completed a basic study of Algebra I by course end.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion of Math II. • A scientific calculator is required for this course.

<p style="text-align: center;"><u>Intermediate Algebra</u> Grade 11-12/ 2 Trimesters/ 4 Credits</p>
<p>This course is geared for students who are not ready for Algebra 2 after the completion of Algebra 1 and Geometry. A combination of Algebra 1 and Algebra 2 concepts will be studied using applications and modeling. Students who successfully complete this course will go to Algebra 2, or other math electives. Students who did not pass trimester one of Algebra 2 prep also have the option of moving into this class.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion Algebra I Prep & Geometry Prep.

<p style="text-align: center;"><u>Introduction to Programming Python Parts 1 and 2 (CP)</u> Grades 10-12/1 Trimester/ 2 Credits</p>
<p>This class will introduce students to Computer Science, providing a solid foundation of common Computer Science concepts, practices and software development. Students will learn various techniques used in Android development. The primary technologies associated with the deployment of Android Apps will be presented; students will build basic Android Apps. Successful completion of the course will greatly improve the student's chances of success in the subsequent College Board Advanced Placement (AP) Computer Science elective.</p>
<ul style="list-style-type: none"> • Note: This course meets the ICT requirement.

<p style="text-align: center;"><u>Pre-Calculus (CP)</u> Grades 11-12/ 2 Trimesters/ 4 Credits</p>
<p>This course provides an in-depth study of polynomial functions, rational functions, logarithmic functions, trigonometric functions, and their applications. This class will prepare students to take Calculus at Winnacunnet High School or at a post-secondary institution.</p>
<ul style="list-style-type: none"> • To Enroll: B or better in Algebra II (Acc) or C or better in Algebra II Honors with teacher recommendation. • Note: A graphing calculator is required for this course.

<p style="text-align: center;"><u>Pre-Calculus Honors</u> Grades 11-12/ 2 Trimesters/ 4 Credits</p>
<p>This course will cover the same array of topics as described in Pre-Calculus CP but will differ in both pace and depth.</p>
<ul style="list-style-type: none"> • To Enroll: B or better in Algebra II Honors with teacher recommendation. • Note: A graphing calculator is required for this course.

Topics in Applied College Math (TAC Math) (CP)

Grades 12/ 2 Trimesters/ 4 Credits

This is a course in mathematical problem solving. Students will use basic math skills and technology as they become actively involved in solving applied problems from the topics of algebra, geometry, data analysis, finance, probability, and statistics. Career and life skills will be emphasized.

- To Enroll: C or better in Algebra II or with permission
- Note: Running Start credit available through Great Bay Community College

Finite Mathematics CP

Grade 11-12/ 1 Trimester/ 2 Credits

This course is designed for the student who intends to attend a two or four year college with a focus in Liberal Arts or Social/Life Sciences. Students will explore a variety of topics including matrices, Gaussian Elimination, linear programming, sequences, and series, and topics from the mathematics of finance. This course in conjunction with Probability and Statistics will prepare students for college level Finite Mathematics

- To Enroll: “B-” or better in Algebra II Prep or “C” or better in Algebra II (Acc) with teacher recommendation.

Probability and Statistics CP

Grade 11-12/ 1 Trimester/ 2 Credits

This course is designed to follow Algebra II for the student intending both a four-year college experience and a major in the liberal arts or social/life sciences, or a technical two-year associate’s degree. The course will include a study of counting methods, compound, conditional, and binomial probability, probability distributions, and expected value. Descriptive statistics, both visual and numerical, standard scores and normal distributions will also be studied. This course, in conjunction with Finite Mathematics, will prepare students for college level Finite Mathematics.

- To Enroll: “B-” or better in Algebra II Prep or “C” or better in Algebra II (Acc) with teacher recommendation.

Contemporary Mathematics

Grade 12/ 2 Trimesters/ 4 Credits

Contemporary Math is a two-trimester course designed to meet the needs of students interested in continuing their mathematical experience and to foster an appreciation for the art, history, beauty, and application of mathematics. Connections will be made between mathematics and down-to-earth real life problems, answering the question, “When will I ever use this?” Students will demonstrate competence on a variety of topics through applications in the context of problem-solving and modeling.

- To Enroll: D or better in Algebra II or with permission.

<p style="text-align: center;"><u>Design Code Build</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This course is designed to engage students in hands-on activities that prompt exploration, build their conceptual understanding of math concepts, and learn basic programming logic & coding skills. Students will use the TI-84 Plus CE Python or TI-Nspire graphing calculator, the TI-Innovator Hub, TI-Rover, and other TI-Innovator Packs (containing connectors, resistors, breadboards, LED lights, etc.) in their explorations and modeling activities. This course assumes no programming experience and will introduce students to TI-Basic or TI-Python programming.</p>
<ul style="list-style-type: none"> • Note: requires completion of the NH Algebra competencies (Algebra 1 or Math I, II, III). C or better in Math III. • Note: This course meets the ICT Requirement

<p style="text-align: center;"><u>Calculus (CP)</u> Grade 12/ 2 Trimester/ 4 Credits</p>
<p>Calculus is the mathematical study of change that has widespread applications in science, engineering, economics and business. This course provides a rigorous introduction to single-variable calculus. Topics include limits, continuity, differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions applications of derivatives, and integration, including Fundamental Theorem of Calculus. This course will engage students to think beyond memorizing formulas and to work towards understanding concepts.</p>
<ul style="list-style-type: none"> • To Enroll: C or better in Precalculus (CP) or teacher recommendation. • Notes: Dual Enrollment Credit Available from Southern New Hampshire University. A graphing calculator is required for this course.

<p style="text-align: center;">AP Computer Science Principles Grades 9-12/ 3 Trimester/ 6 Credits</p>
<p>Computer Science Principles (CSP) introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology impact the world. Students do not need previous computer science experience to take this course. Open 9-12. Scheduled year-long.</p>
<ul style="list-style-type: none"> • Note: This course meets the ICT requirement • To Enroll: Successful completion of Algebra I or teacher recommendation.

AP Computer Science
Grades 11-12/ 3 Trimesters/ 6 Credits

This course is intended for students interested in pursuing math, engineering, or any of the sciences in college. After a brief introduction into the internals of modern day computers followed by a research based discussion on the social implications of modern day computing technology, elementary computer programming concepts will be introduced using the C++ a programming language. It is imperative that prior to our study of the computer programming methodology known as Object Oriented Programming (OOP) that students have a thorough understanding of commonly used conditional and repetition structures used within the OOP paradigm. The C++ textbook used for the first 12 weeks of the course will enable the student to focus on these universal programming concepts. At the 12 week point in the course we will then begin our in depth study of the OOP paradigm using Java, specifically focusing on the standard Java library classes from the AP subset. Concepts such as classes, objects, inheritance, polymorphism, and code reusability will be studied.

During the 12 to 27 week period within the course students will be required to write several interdisciplinary programs (sports statistics project and the random walk game) that will reinforce classroom discussions, the Array List class and elementary searching and sorting routines. At this point in the year students will have an in-depth understanding of the Java language and OOP principles so that we can begin our study for the AP exam using the Grid world Case Study.

- To Enroll: Completion of Algebra I or teacher recommendation
- Great Bay Community College Credit available through Running Start.
- Note: This course meets the ICT requirement

AP Statistics
Grades 11-12/ 3 Trimesters/ 6 Credits

This course is designed to prepare students to take the College Board Advanced Placement Examination in May. Students will explore statistics in an interactive and technology-based setting with an emphasis on applying statistical knowledge to real-world scenarios. This course requires students to be critical thinkers, excellent writers, and outstanding problem solvers. This is a college level course. Topics covered include descriptive statistics, data collection, probability theory, and statistical inference. In all areas of study, analysis and interpretation will be stressed. Students completing AP Statistics are expected to take the AP Statistics exam in May. A graphing calculator is required for this course.

- To Enroll: Algebra II Honors or II (Acc) with a final grade of "B" or better with teacher recommendation.
- Note: This course meets the ICT requirement

<p style="text-align: center;"><u>AP Calculus (AB)</u> Grades 12/ 3 Trimesters/ 6 Credits</p>
<p>This course is designed to prepare students to take the College Board Advanced Placement Examination in May. The course will be fast-paced and rigorous. Topics include an extensive study of limits, differentiation, integration, and their application in physics and real-life situations. Students are expected to maintain high quality work to continue throughout the year, and are expected to take the exam in May. Placement into this course is by teacher recommendation. A graphing calculator is required for this course.</p>
<ul style="list-style-type: none"> • To Enroll: teacher recommendation • Note: A summer assignment is required.

<p style="text-align: center;">AP Calculus (BC) Grades 12/ 3 Trimesters/ 6 Credits</p>
<p>This course is designed to prepare students to take the College Board Advanced Placement Examination in May. This course is to be taken after successful completion of AP Calculus (AB). The course will be fast-paced and rigorous. Topics include an extensive study of limits, differentiation, integration, series, parametric and polar equations, and their application in physics and real-life situations. Students are expected to maintain high quality work to continue throughout the year, and are expected to take the exam in May. Placement into this course is by teacher recommendation. A graphing calculator is required for this course.</p>
<ul style="list-style-type: none"> • To Enroll: teacher recommendation • Note: A summer assignment is required.

Music

	General Music Courses	Instrumental Courses	Vocal Courses
Grade 9	American Popular Music Music Recording and Sound Production	Band Jazz Band (by audition) Beginning Strings String Orchestra	Chorus
Grade 10	American Popular Music Music Recording and Sound Production Music in Cinema Music Theory Advanced Music Theory	Band Jazz Band (by Audition) Beginning Guitar Beginning Piano & Keyboard Beginning Strings Guitar Ensemble (must complete Beginning Guitar course) Intro to World Drumming String Orchestra (must complete Beginning Strings)	Chorus Chamber Singers (by audition) Voice
Grades 11-12	American Popular Music Music Recording and Sound Production Music in Cinema Music Theory Advanced Music Theory	Band Jazz Band (by Audition) Beginning Guitar Beginning Piano & Keyboard Beginning Strings Guitar Ensemble (must complete Beginning Guitar course) Intro to World Drumming String Orchestra(must complete Beginning Strings)	Chorus Chamber Singers (by audition) Voice

Band

Grades 9-12 / Full Year/ 3 credits

Band Full Year is a performance class for students who have experience playing traditional wind or percussion instruments. Students in Band perform a wide variety of educational wind band repertoire with an emphasis on individual performance as it relates to the ensemble. Although it is not required, students are strongly encouraged to study privately on their instruments. Students are also required to be a part of the WHS Marching Band and will perform at all home football games, local parades and graduation ceremonies. Marching Band begins the week before the first official school day for Band Camp. Band will meet every other day for one full class period throughout the year. Marching Band has rehearsals on Thursday evenings for the first 6 weeks of the school year. Students will also be performing in at least 3 major concerts throughout the year. Students are also eligible to take part in the annual Music Department trip that takes place in the spring. Upon completion of this course,

students may elect to repeat band for additional credit each year.

- Note: Meets every other day, all year.
- To Enroll: At least one year of experience with middle school band or one year private lesson study and ability to read music.

Jazz Band

Grades 9-12/ Full Year/ 3 Credits

Jazz Band is an auditioned performance class in which students perform a variety of musical styles including swing, big band, samba, funk, and rock. Auditions will take place in the spring of the previous school year. Instrumentation needed for Jazz Band includes; saxophones, trumpets, trombones, guitar, bass, piano and drum set. Emphasis is placed on individual performance as it relates to the ensemble, as well as on improvisation. The Jazz Band performs numerous times throughout the school year, including but not limited to all WHS concerts, SAU tours and events in our communities. Students in Jazz Band are also eligible to take part in the annual Music Department trip that takes place in the spring. Students may audition to repeat the class for additional credits each year.

- Note: students taking Jazz Band should register for both Band and Jazz Band- the class will meet daily
- To Enroll: By audition. At least one year of experience on an instrument, strong music notation reading skills.

Chorus

Grades 9-12/ Full Year/ 3 Credits

Chorus is a performance class for students interested in singing four-part harmony in a large group, performing, and learning techniques to improve their voices. Students will also learn basic music reading skills and work on improving their choral sight-reading. Songs sung in Chorus cover a wide range of styles: classical, folk, Broadway, jazz, spirituals, and pop. At least one concert will be presented each trimester. Participation in concerts is a requirement of the course. Students may elect to repeat Chorus for additional credit each year.

- Note: This class meets on alternating days

<p style="text-align: center;"><u>Chamber Singers</u> Grades 10-12/ Full Year/ 3 Credits</p>
<p>This is an auditioned performance class in which students continue to refine their vocal skills and mastery of choral literature. Music from the Renaissance to the 21st Century will form the basis of the repertoire. Emphasis is placed on individual responsibility, musical development and a shared creative process. Participation in concerts is a requirement of the course. Chamber Singers will meet for a full class period every day. Upon completion of Chamber Singers, students may audition to repeat the course for additional credit each year.</p>
<ul style="list-style-type: none"> • To Enroll: By audition.

<p style="text-align: center;"><u>American Popular Music</u> Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>In this course students listen to, discuss and analyze all of the various popular musical styles and many musicians that have been popular in the United States from 1900 to the present. Students will study blues, hot jazz, swing, be-bop, cool jazz, musical theater, folk, rock and roll, as well as current popular music forms. Written reports and oral presentations are required.</p>

<p style="text-align: center;"><u>Music Recording And Sound Production</u> Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>This course is offered to develop a basic understanding of the elements of music using the WHS Digital Music Lab. Instruction will include reading and writing music. Basic piano keyboard skills will be developed. Participants in this hands-on course will also learn how to use computer software to create and edit assigned MIDI and audio projects. Students will also learn the proper use of microphones to record radio projects. Although no previous musical experience is required to take the course, a willingness to develop music reading skills and piano technique is essential for success.</p>
<ul style="list-style-type: none"> • Note: This fulfills the ICT requirement.

<p style="text-align: center;"><u>Beginning Strings</u> Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>The primary purpose of this course is for students who have never played an orchestral stringed instrument to begin instruction on the student's choice of instrument, limited to: violin, viola, cello, or upright string bass only. No previous instrumental music training is required. The curriculum includes learning to read music (pitch and rhythm) as well as learning to play the instrument. Class time will be divided between instruction, individual practice time, and small group playing. A secondary purpose of the course is to provide students who already play an instrument the opportunity to learn additional (stringed) instruments. Upon completion of the course, students may elect to take String Orchestra.</p>
<ul style="list-style-type: none"> • Note: Instruments available for loan at no cost.

<p style="text-align: center;"><u>Music in Cinema</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Students will be introduced to the pivotal role(s) that music has played and continues to play in the modern film industry. Students will explore the basic elements of music, and how they are used to create or enhance mood in a film. The history of music in film will be studied, with representative examples of important films being viewed in class. Students will explore a wide variety of films, and analyze the use of music throughout a film, using timecode analysis and essays. Previous music experience is not required. This is a good companion course to any music course as well as for students who are interested in taking Filmmaking.</p>
<ul style="list-style-type: none"> Note: Not available to freshmen.

<p style="text-align: center;"><u>Music Theory</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Music Theory is a course designed for students with music performing experience who would like to increase and refine their knowledge of the theoretical language of music. Students will study music through analysis of written music and through aural exercises of melodic, rhythmic, and harmonic dictations. Students will also build basic piano keyboard proficiency. Class time will be divided between written work, aural exercises, and piano technique. Development of these skills will be enhanced using music theory software and piano keyboards in the Digital Music Lab.</p>

<p style="text-align: center;"><u>Advanced Music Theory</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimesters/ 2 Credits</p>
<p>Advanced Music Theory is a two-trimester course designed for students who have taken Music Theory and who would like to continue to develop their knowledge of the theoretical language of music. Students will study music through analysis of written music, composing, arranging for various ensembles, realization of figured bass, and through aural exercises or melodic, rhythmic and harmonic dictations, and through sight singing and piano keyboard performance. Class time will be divided between written work, aural exercises, sight-singing, and piano technique. Development of these skills will be enhanced through the use of music theory software and piano keyboards in the Digital Music Lab.</p>
<ul style="list-style-type: none"> To Enroll: Completion of Music Theory or teacher recommendation

Intro to World Drumming
Grades 10-12/ 1 Trimester/ 2 Credits

This course will serve as an introductory course in music as well as music performance. In addition it will be a “hands on” approach to learning percussion techniques. Students will learn a variety of musical styles as well as learn about drums and drumming of various cultures around the world. They will learn how to read music as well as learn music as an oral art form that is passed on from generation to generation. They will understand and demonstrate the value and techniques of cooperative teamwork and learn to listen actively and critically to various styles of music.

Beginning Guitar
Grades 10-12/ 1 Trimester/ 2 Credits

Limited to students with no previous instruction. Guitar is designed for students with limited or no guitar playing experience who are interested in learning basic playing skills on the acoustic guitar. Students with previous experience playing guitar should not take this beginning level course. The class will focus on teaching students to read both standard notation and tablature, as well as to play chords by name. Additional skills will include, but not be limited to, bass guitar playing, power chords, arpeggios, strumming, and fingerpicking. Students should expect to be assessed by written work, classroom performance (solos and groups), one-on-one performance, and self and teacher evaluation.

Guitar Ensemble
Grades 10-12/ 1 Trimester/ 2 Credits

Guitar Ensemble is designed for students interested in learning more advanced playing skills on the acoustic guitar. The class will focus on teaching students to read more complicated standard notation and tablature, as well as to play more advanced chords by name. Additional skills will include, but not be limited to, chords and notes in higher positions, bass guitar playing, Spanish-style guitar playing, strumming, and fingerpicking. Students should expect to be assessed through written work, one-on-one, classroom, and public performance. Students will also be assessed through self and teacher evaluation.

- To Enroll: Students must have taken Beginning Guitar or by teacher recommendation

Beginning Piano & Keyboard
Grades 10-12/ 1 Trimester/ 2 Credits

Beginning Piano and Keyboard is designed for students with limited or no piano playing experience who are interested in learning basic performance skills on the piano and electronic keyboard. The class will focus on teaching students to read both standard notation and chord symbols, as well as to play chords by name. Additional skills will include, but not be limited to, playing scales, transposition, “comping”, pedaling techniques, and basic composition skills. Students should expect to be assessed by classroom performance, written work, self-evaluation, and one-on-one teacher evaluation.

<p style="text-align: center;"><u>Voice</u></p> <p style="text-align: center;">Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This class is for students who are interested in improving their individual voice through practice and performance of a wide variety of solo voice literature. There will be group and individual recitals, covering music from art songs, arias, Broadway, jazz and pop.</p>
<ul style="list-style-type: none"> • To Enroll: Students must be willing to sing solo.

<p style="text-align: center;"><u>String Orchestra</u></p> <p style="text-align: center;">Grades 9-12/ 1 Trimester/ 2 Credits</p>
<p>The primary purpose of this course is to continue instruction on an orchestral stringed instrument of the student's choice. Instrument selection shall be limited to the violin, viola, cello, and upright string bass. The curriculum includes developing music reading skills (pitch and rhythm) as well as developing technique on the instrument and culminating with a public performance. Class time will be divided between group instruction, individual practice, and small group playing. Students will use book 2 of a standard string method series and easier orchestral arrangements in this course. Upon completion of the course, students may elect to repeat String Orchestra for additional credit each year.</p>
<ul style="list-style-type: none"> • To Enroll: Previous middle school or high school string orchestra experience, completion of the Beginning Strings course or teacher recommendation.

Physical Education & Wellness

	Required Courses	Elective Courses	
Grade 9	Fitness, Sports & Games	Grades 10-12: Sports Medicine I Sports Medicine II Grades 11-12: Advanced Weight Training Competitive Sports	
Grade 10	Wellness		
Grades 10-11	Two Required Concentration Courses: Fitness for Life Individual and Net Sports Project Adventure Team Sports Weight Training Advanced Weight Training		
Grade 12	Lifetime Wellness		

Freshman & Sophomore Concentration Courses

<u>Fitness, Sports and Games</u> Grade 9/ 1 Trimester/ 2 Credits
<p>This course will introduce the student to the importance of physical activity as a component of every healthy lifestyle. Students will participate in activities such as fitness development, team activities, initiative games and individual sports and other activities as deemed appropriate by the Physical Education staff. Students will be required to keep a personal fitness portfolio throughout the trimester.</p>

<u>Wellness</u> Grade 10/ 1 Trimester/ 2 Credits
<p>Students will study and understand the components of a healthy lifestyle and will be encouraged to apply the concepts to their own personal lifestyles. This course focuses on the health triangle, mental well-being and the teen brain, sexuality, tobacco, drugs, alcohol. This class emphasizes an awareness of feelings and behaviors, effective stress management and how decision making in the teen years affects your life.</p>

Sophomore, Junior Concentration Courses

To fulfill graduation requirements, students must choose courses from the following list to meet the equivalent of two courses, scheduling one course in grade 10 and one course in grade 11 or 12. Some courses may be taken twice to fulfill the PE requirement. Students wishing to take an additional concentration elective above and beyond the requirements will be allowed only on the availability of seats in the class.

Fitness for a Lifetime

Grades 10-12/ 1 Trimester/ 2 Credits

Emphasis will be placed upon fitness activities that can be practiced for a lifetime. These activities may include walking, weight training, running, tennis, golf, dance, and conditioning. Students will be introduced to some basic nutrition concepts as well as conduct their own wellness evaluations. In addition, fitness principles, traditional and nontraditional activities, will be incorporated throughout the trimester and other activities as deemed appropriate by the Physical Education staff.

Individual and Net Sports

Grades 10-12/ 1 Trimester/ 2 Credits

Emphasis in this course will be on the rules and skills necessary to play individual sports such as golf and archery. Net and racquet sports such as tennis, badminton, volleyball, pickle, and paddleball, will be included. Fitness principles, traditional and nontraditional activities will be incorporated throughout the trimester and other activities as deemed appropriate by the Physical Education staff.

Project Adventure

Grades 10-12/ 1 Trimester/ 2 Credits

The Project Adventure curriculum will involve a wide variety of learning activities that will often include fun icebreakers, warm-up games, unique non-traditional games, group problem solving activities, as well as some traditional activities, all in preparation for the low/high ropes course challenges. The high ropes can vary from 40-60 feet in height. Technical skills such as belaying, knot tying, proper care of climbing gear, and basic orienteering will be taught in this course. Of highest importance, a safe and friendly classroom environment will be promoted. Respecting and valuing diversity will be highly stressed within the concept of the "Full Value Contract" as the basis for relating to one another. Trust building, listening skills, cooperation, and a willingness to try new activities are essential components for success in this class. Students will need to be prepared to participate in other activities as deemed appropriate by the Physical Education staff.

<p style="text-align: center;"><u>Team Sports</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Emphasis in this course will be placed upon various rules and skills in team games such as soccer, flag football, team handball, lacrosse, floor hockey, volleyball, basketball, softball, and other team sports. Focus will include competition through round robin and tournament play. In addition, fitness principles, traditional and nontraditional activities will be incorporated throughout the trimester and other activities as deemed appropriate by the Physical Education staff.</p>

<p style="text-align: center;"><u>Weight Training & Conditioning</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>Time will be spent on personal weight training, cross training, plyometrics, running, and additional cardiovascular activities, and other activities as deemed appropriate by the Physical Education staff. Focus will be on personal fitness plans, anatomy and physiology, and culminating projects.</p>

<p style="text-align: center;"><u>Advanced Weight Training</u> Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This course will focus on personal weight training programs to fit their individual needs. Students will research weight-training programs. Plyometric and cardiovascular activities will be integral components to this course.</p>
<ul style="list-style-type: none"> • To Enroll: Weight Training and Conditioning with a minimum grade of B and teacher recommendation.

<p style="text-align: center;"><u>Competitive Sports</u> Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This course is an orientation toward individual and team games such as basketball, volleyball, tennis, badminton, and other activities as deemed appropriate by the Physical Education staff. The majority of the time will be spent on playing and tournament-type competition.</p>
<ul style="list-style-type: none"> • To Enroll: Team Sports or Individual Net Sports or teacher recommendation.

Required Senior Course

<p style="text-align: center;"><u>Lifetime Wellness</u> Grades 12/ 1 Trimester/ 2 Credits</p>
<p>It is important to take charge of your life and have healthy lifestyle related goals. This will allow you to take responsibility for your own personal well-being. This course will examine ways to take a proactive and preventative approach to provide ideal levels of physical, emotional and social function. It will also prepare you for life after Winnacunnet as you move through the stages of maturity and the health</p>

related issues that come with it, including nutrition and fitness, environmental and community health, personal and consumer health, first aid and safety, healthy behaviors and choices, and disease.

Elective Courses

Students are encouraged to continue their physical education experience by selecting courses from the elective program.

Sports Medicine I

Grades 10-12/ 1 Trimester/ 2 Credits

Students who are interested in pursuing a career in sports medicine, athletic training, physical therapy, nursing and other health related occupations are encouraged to enroll in this course. This course is designed as an introduction to the procedures and practices relating to the prevention, management, rehabilitation and care of athletic injuries. Topics such as the sports medicine team and facility and supplies are discussed. Students will explore the anatomy and physiology of the lower extremities (hip, knee, ankle, foot) and be introduced to taping and wrapping techniques. Students will also be introduced to hands only CPR. A variety of common athletic injuries and conditions will be introduced and researched.

Sports Medicine II

Grades 10-12/ 1 Trimester/ 2 Credits

Students who are interested in pursuing a career in sports medicine, athletic training, physical therapy, nursing and other health related occupations are encouraged to enroll in this course. This course is designed to explore the upper extremities (head, neck, spine, shoulder, elbow, wrist and hand) and practice more advanced techniques in taping and wrapping. Issues such as nutrition, physical examination, wound care, environmental conditions, therapeutic modalities are discussed. Students will continue to understand the mechanism of injury, evaluation and treatment protocols and rehabilitation procedures. Students will become certified in CPR.

- Note: Sports Medicine I is a prerequisite for Sports Medicine II

Science

Suggested Science Pathways				
	Essential Studies (ES)	College Preparatory (CP)	Honors (Option #1)	Honors (Option #2)
Grade 9	Physical Science	Physical Science CP	Physical Science Honors	Biology Honors
Grade 10	Biology or General Science	Biology (CP) Biology Honors	Biology Honors	Chemistry Honors
Grade 11-12	Contextual Chemistry Astronomy and Planetary Science Ecology Oceanography Marine Biology NH Birds	Anatomy & Physiology Chemistry Contextual Chemistry Physics (CP) Astronomy and Planetary Science Ecology Oceanography Marine Biology NH Birds	Recommended: Chemistry Honors or Physics Honors	Required: Physics Honors or AP Physics I
Grade 12			Anatomy & Physiology Chemistry Contextual Chemistry Physics (CP) Astronomy and Planetary Science Ecology Oceanography Marine Biology NH Birds AP Physics I AP Chemistry AP Biology AP Environmental Science	Optional in addition to Physics: AP Chemistry AP Biology AP Environmental Science Anatomy & Physiology Astronomy and Planetary Science Ecology Oceanography Marine Biology NH Birds AP Physics II

Grade 9 Foundation Courses

<u>Physical Science CP/ ES /H</u> Grade 9/ 2 Trimesters/ 4 Credits
<p>The first trimester of Physical Science 9 deals with the structure and properties of matter, types of energy, heat, and temperature, energy in earth processes, and the theory of plate tectonics. The course emphasizes the development of laboratory skills, critical thinking, and mathematical analysis of data. The second trimester builds on the foundation acquired in the first half of the course. The class will focus on topics ranging from the power of the periodic table, chemical bonding and reactions, ions and electromagnetism, stars and galaxies, and forces and motion. The course emphasizes developmental/laboratory skills, critical thinking and mathematical analysis of data. Physical Science will lay the foundation for accelerated work in chemistry and physics.</p>
<ul style="list-style-type: none">• To Enroll in PS (H): 8th grade recommendations and concurrent enrollment in Geometry or Algebra 1• To Enroll in PS (CP): 8th grade recommendations and concurrent enrollment in Geometry or Algebra 1• To Enroll PS (ES): 8th grade recommendations and concurrent enrollment in Math 1 ES or Algebra 1

<u>Biology Honors</u> Grade 9/ 3 Trimesters/ 6 Credits
<p>Biology is focused on the use of life science principles and theory as tools to make sense of the complexity, diversity and interconnectedness of life on earth. Throughout the course the student will build scientific literacy by designing and performing experiments, collecting data, and drawing conclusions. Scientifically literate students possess the understanding and application of scientific concepts and processes required for personal decision-making and participation in civic and cultural affairs. Students most successful in Biology Honors possess excellent reading and writing skills, strong school work ethic and are capable of connecting concepts across the scientific disciplines.</p>
<ul style="list-style-type: none">• To Enroll: Placement into Biology H will be based on 8th grade teacher recommendation, math placement, and standardized test results.• Concurrent enrollment in Geometry or Algebra I Accelerated• Note: Students selecting Honors Biology will be enrolled in Chemistry Honors in the sophomore year. It is therefore important that mathematics is considered when making this decision.

Grade 10 Foundation Courses

<p style="text-align: center;"><u>Biology 10 CP/ ES</u> Grade 10/ 3 Trimesters/ 6 Credits</p>
<p>Biology is focused on the use of life science principles and theory as tools to make sense of the complexity, diversity and interconnectedness of life on earth. Throughout the course the student will build scientific literacy by designing and performing experiments, collecting data, and drawing conclusions. Scientifically literate students possess the understanding and application of scientific concepts and processes required for personal decision-making and participation in civic and cultural affairs. Students most successful in Biology College Preparatory are self-motivated individuals with grade level appropriate reading, writing, computational, and reasoning skills. Students most successful in Biology Essential Skills are motivated to do well in school with additional time to strengthen learning skills.</p>
<ul style="list-style-type: none">• To Enroll: Recommendation of 9th grade science teacher.

<p style="text-align: center;"><u>Chemistry Honors</u> Grades 10-12/ 3 Trimesters/ 6 Credits</p>
<p>Chemistry is the study of tiny, unseen particles that are the building blocks of you and everything in the universe! The behavior of these particles, called atoms, provides the fuel, which heats the stars, and controls your very ability to live and breathe. Knowledge of chemistry will help you to better understand the world in which we live. It is also a way of thinking, a kind of exercise for the brain that will let you think more clearly and solve problems with greater confidence. This course will help you to deal with the complex problems you will encounter in college and in life. Just as training your body by physical exercise is demanding, so is the study of chemistry. Therefore, this program is designed for students who are ready to meet that challenge, are academically motivated, and college bound. A study of chemistry should NOT be limited to students continuing their education in science; it is an important aspect of education for any interested person.</p>
<ul style="list-style-type: none">• To Enroll: Exemplary performance in Biology Honors and recommendation from Science and Math teachers. Successful completion of Algebra I.

<p style="text-align: center;"><u>General Science</u> Grade 10/ 3 Trimesters/ 6 Credits</p>
<p>This combination of Physical Science & Life Science requirements will constitute a 5- trimester pathway, scheduled for a specific cohort of students with needs that are currently not served in the Physical Science/ Biology progression. This class is offered credit by trimester.</p>
<ul style="list-style-type: none">• To Enroll: Teacher recommendation

Physical Science Concentrations

Chemistry (CP)

Grades 10-12/ 3 Trimesters/ 6 Credits

Chemistry is the study of tiny unseen particles that are the building blocks of you and everything in the universe! Understanding the nature of matter has allowed us to create new and useful materials that have contributed significantly to our modern society. Developing a foundation in chemistry will help you to better understand the world in which we live. This is a lab-oriented course that focuses on matter, its interactions and the implications of those interactions. It will also emphasize the development of abstract thinking skills. Therefore, this program is designed for students who are academically motivated, and college bound. A study of chemistry should NOT be limited to students continuing their education in science. Rather it is an important aspect of education for any interested person.

- To Enroll: C or better in Physical Science CP and Algebra I CP or teacher recommendation.

Contextual Chemistry (CP)

Grades 11-12/ 2 Trimesters/ 4 Credits

This course will introduce the student to the principles of chemistry within the context of societal applications. This Lab oriented chemistry course is designed for the Liberal Arts College bound students who do not plan to major in science or engineering. The chemistry presented to the students builds upon the same vocabulary, thinking skills, problem solving skills, and lab techniques as most traditional introductory chemistry courses. In addition, students will integrate what they have learned to address issues in the real world.

- To Enroll: Successful completion of Physical Science and Algebra I with a “C” or better.

AP Chemistry

Grades 11-12/ 3 Trimesters/ 6 Credits

This course is a continuation of the Honors Chemistry class and is a college level chemistry course. Advanced Placement (AP) Chemistry is a three-trimester course. AP Chemistry is an exciting option for students who wish to pursue science at the college level and are looking to expand upon their science background, or for students who wish to distinguish themselves as academically diverse. Topics in previous Chemistry courses will be expanded upon and emphasis will be placed on new topics such as acid-base and oxidation reactions, kinetics and thermodynamics, nuclear and electrochemistry. Students who choose AP Chemistry should have a strong mathematics background since this course is highly math-oriented. AP Green Chemistry Invention Project [Optional]: Students who take AP Chemistry have the option of participating in an exciting collaborative project with Beyond Benign Institute for Green Chemistry and MIT’s Lemelson Invention Institute.

- To Enroll: Juniors wishing to enroll in this course are required to have completed Biology and Chemistry.

- Students completing AP Chemistry are expected to take the AP Examination.

Physics (CP)

Grades 11-12/ 3 Trimesters/ 6 Credits

The study of Physics is a conceptually and experimentally structured program dealing with the basic laws of physics that govern the world in which we live. Topics include the laws of motion, forces, work/energy/momentum, study of waves, and sound. Physics CP is a math oriented class, with an emphasis on laws and demonstrations to support theories and calculations. Students interested in attending post-secondary school should take this course.

- To Enroll: Two years of high school science and completion of or currently enrolled in Algebra II.

Physics Honors

Grades 11-12/ 3 Trimesters/ 6 Credits

Physics Honors is a rigorous, mathematically based class focused on the laws of physics that govern the world we live in. Topics include motion, forces, work/energy/momentum, waves and sound. Students in this class will have the opportunity to demonstrate these physical laws through experimental investigation in a laboratory setting. This course is for any student interested in focusing on the sciences or engineering at the collegiate level. Physics Honors is the appropriate choice for students who love science.

- To Enroll: Above average achievement in both Biology Honors and Chemistry Honors, but have not met the mathematical prerequisite for AP Physics 1.

AP Physics I

Grades 11-12/ 3 Trimesters/ 6 Credits

AP Physics 1 is a three trimester course that is open to juniors and seniors who have an interest in math and science and are looking for a challenge. The College Board, which certifies that WHS meets their criteria in order to call it “Advanced Placement”, describes the course this way: “AP Physics 1 is the equivalent to a first-semester college course in algebra-based physics, but is designed to be taught over a full academic year, allowing time for AP teachers and students to develop a deep understanding of the content and to apply that knowledge through inquiry-based labs. The full year also allows time for inclusion of physics content specified by state standards. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.” This course will be the next step for juniors who have taken Biology H and Chemistry H who are also in an advanced math level.

- To Enroll: It is required that students have already completed Algebra 2 before taking AP Physics 1, and it is recommended that they are concurrently enrolled in Pre-Calculus. Students completing AP Physics 1 are expected to take the AP exam in May.

<p style="text-align: center;"><u>AP Physics II</u></p> <p style="text-align: center;">Grade 12/ 3 Trimesters/ 6 Credits</p>
<p>For students that truly enjoyed AP Physics 1 and would like to continue in their journey into the world of physics, AP Physics 2 is the course for you! The College Board describes it as “AP Physics 2 is an algebra-based course that is equivalent to a second-semester college course in algebra-based physics. It is designed to be taught over a full academic year, allowing time for AP teachers and students to develop a deep understanding of the content and to apply that knowledge through inquiry-based labs. The full year also allows time for inclusion of physics content specified by state standards. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics.” The content covered in this course is very similar to the content in the second year of the former AP Physics B course. This is a very fast paced and rigorous look at the world of physics beyond mechanics.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion of AP Physics 1 or Physics H with teacher’s recommendation. • Students completing AP Physics 2 are expected to take the AP exam.

<p style="text-align: center;"><u>Astronomy and Planetary Science</u></p> <p style="text-align: center;">Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This is a survey course designed to introduce students to the study of Astronomy and geology with a focus on celestial body formation. Topics include the Big Bang, stellar life cycle, formation of the solar system, plate tectonics on Earth and on planets and moons, and space technology. The class has the contract for level option and may be used for the physical science requirement.</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Biology and Physical Science. • Note: Contract for Honors / (CP) / Essential Studies

<p style="text-align: center;"><u>Oceanography</u></p> <p style="text-align: center;">Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This is a survey course designed to introduce students to the study of oceanography. Students frequently work in groups and do hands-on activities. Topics studied include navigation, bathymetry, waves, currents, tides, and ocean chemistry. The class has the contract for level option and may be used for the physical science requirement.</p>
<ul style="list-style-type: none"> • To Enroll: Successful completion of Biology and Physical Science or teacher recommendation. • Note: Contract for Honors / (CP) / Essential Studies

Life Science Concentrations

Advanced Placement Biology

Grades 11-12/ 3 Trimesters/ 6 Credits

Advanced Placement Biology is a year long course in biology taught at the level of the first-year college biology major. It adheres closely to the College Board standards for AP Biology, making it fast paced and detailed at the same time. The central organizing concept of the course is evolution. The three major emphases are CELLULAR (biochemistry, cellular physiology, and molecular genetics), ORGANISMS (diversity of life on earth, plant and animal physiology, including reproduction and growth) and POPULATIONS (evolution and ecology).

- To Enroll: Biology CP with a grade of “A-“or better or Biology Honors with a grade of” B+” or better and Chemistry with a grade of “B” or better and teacher recommendation.
- Notes: Juniors wishing to enroll in this course are required to have completed or be currently enrolled in Biology Honors, Chemistry Honors and Physics Honors. A summer assignment is required.
- Students completing AP Biology are expected to take the AP exam in May.

Anatomy & Physiology

Grades 11-12/ 2 Trimesters/ 4 Credits

College Human Anatomy and Physiology is an introductory course to the structure, organization, function, and integration of the human body systems. An Anatomy and Physiology student is expected to learn by memory, numerous body structures and functions and apply that knowledge in unique situations. Numerous observational laboratory investigations and case studies are important aspects of the course. This is the recommended course for students who are serious about pursuing any career in human health, athletics, medicine, students pursuing biologically integrated STEM careers, and students interested in animal/veterinary science.

- To Enroll: Successful completion of Biology.
- Notes: Contract for Honors or CP. Great Bay Community College Credit available through Running Start. May be open to 10th graders with permission of the instructor and the department administrator.

Ecology

Grades 11-12/ 1 Trimester/ 2 Credits

The theme of this course is an appreciation and an understanding of the sometimes simple but usually complex interrelationships between living organisms (including humans) and their environment. Possible topics include ecosystem study/modeling, nature cycles, technology and its environmental consequences, environmental pollution, agricultural issues, global habitat changes, human interactions with plants and animals, environmental ethics, energy issues, world population, and the politics of environmental issues. This is a contract for level course for Honors / (CP) / or Essential Studies.

<p style="text-align: center;"><u>Marine Biology I</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This is a survey course designed to introduce invertebrate marine biology and ocean ecology. Topics studied include taxonomy, ecology, plankton, algae, cnidarians, mollusks, arthropods, and echinoderms. Students also participate in the International Beach Cleanup. Marine Biology 1 must be taken before Marine Biology 2.</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Biology and Physical Science. Open to Sophomores who have completed Bio H during freshman year. • Note: Contract for Honors / (CP) / Essential Studies.

<p style="text-align: center;"><u>Marine Biology II</u> Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This is a survey course designed to introduce students to vertebrate marine biology and fisheries ecology. Students work in groups and do hands-on activities. Topics studied include the three classes of fish, marine mammals, fishing, and the history of whaling. Marine Biology 1 must be taken before Marine Biology 2.</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Biology, Physical Science, and Marine Biology I. • Note: Contract for Honors / (CP) / Essential Studies

<p style="text-align: center;"><u>Study of New Hampshire Birds, Fall</u> Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This course will further student knowledge in the identification, behavior, biology and ecology of birds. Emphasis will be placed on the fall migration of birds with the study and observation of migratory and resident birds. Special attention will be made to migrating hawks and their habitats. This course will cover the history of birding and bird conservation. The course will incorporate both field and classroom study. It will also examine how humans and birds interact through such topics as endangered birds and habitat alteration. At the end of the course students will be expected to identify many of our local birds especially hawks and other birds in flight and have an increased knowledge of birds and their environments. The course may include a field trip to a local birding area or live in-class demonstrations. The class has the <i>contract to level option</i> and may be selected at the Honors, CP, or ES level. This course is offered in the fall Trimester</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Biology and Physical Science. • Note: Contract for Honors / (CP) / Essential Skills.

<p style="text-align: center;"><u>Study of New Hampshire Birds, Spring</u> Grades 11-12/ 1 Trimester/ 2 Credits</p>
<p>This course is designed to introduce students to the identification, behavior, biology and ecology of birds. Emphasis will be placed on the wonder of spring bird migration with the study and observation of migratory and resident birds in their habitats. This course will cover the basic anatomy and</p>

physiology of birds including the nesting cycle of birds with both field and classroom study. It will also examine how humans and birds interact through such topics as endangered birds and habitat alteration. At the end of the course students will be expected to identify many of our local birds and have a general knowledge of birds and their environments. The course may include a field trip to a local birding area or a live in-class demonstration. The class has the *contract to level option* and may be selected at the Honors, CP, or ES level. This course is offered in spring during the third Tri- Semester.

- To Enroll: Completion of Biology and Physical Science.
- Note: Contract for Honors / (CP) / Essential Skills.

AP Environmental Science
Grades 11-12/ Year Long / 6 Credits

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

- To Enroll: Biology CP/H, Chem CP/ H, Algebra I
- Students completing AP Environmental Science are expected to take the AP exam.

Social Studies

Required Courses		SS Concentration Courses 1 Required - Unlimited as Elective Choices
Grade 9	Global Perspectives I & II (ES/CP/H)	American Civil War Asia Rising Cultural Geography Crime & Punishment I Crime and Punishment II Europe Reborn 2021-2022, 2023-2024 History of Media 2022-2023, 2024-2025 Modern Issues Political Process Psychology Sociology Sports and Society This is Africa The 60's Vietnam Revisited World History I 2022-2023, 2024-2025 World History II 2021-2022, 2023-2024 Women's Studies World War II
Grade 10	U.S. History I and II (ES/CP) or American Studies (CP) or Adv. Placement U.S. History (AP)	
Grade 11	U.S. History III (ES/CP) and SS Concentration or Adv. Placement U.S. History II (AP)	
Grade 12	Economics (ES/CP/H) and Foundations of Democracy	

Freshman Classes

<u>Global Perspectives I H/CP/ES</u> Grade 9/ 1 Trimester/ 2 Credits
<p>This course takes a non-western approach to history, introducing students to the various global issues that have prevailed over the last few centuries. It is designed to help students build the insights and background necessary for interpreting current international problems and conflicts. Topics to be covered will include imperialism, human rights, building democracy, economics of geography, and cultural identity. These issues will be explored using case studies that focus on Africa and Latin America. Along with the historical content, emphasis is placed on writing, reading, study, research, and analytical skills. Skill assignments vary according to the level of the course. Students will be placed in levels based on the recommendation process.</p>

<u>Global Perspectives II H/CP/ES</u> Grade 9/ 1 Trimester/ 2 Credits
<p>This course takes a non-western approach to history, introducing students to the various global issues that have prevailed over the last few centuries. It is designed to help students build the insights and background necessary for interpreting current international problems and conflicts. Topics to be covered will include religions, human rights, building democracy, economics of geography, and cultural identity. These issues will be explored using case studies that focus on the Asian continent including the Middle East, China, and India. Along with the historical content, emphasis is placed on writing,</p>

reading, study, research, and analytical skills. Skill assignments vary according to the level of the course. Students will be placed in levels based on the recommendation process.

Sophomore Classes

United States History I & United States History II CP/ES **Grade 10/ 1 Trimester Each/ 2 Credits Each**

U.S. History I, II and III will explore the events, people, ideas and circumstances that formed the American nation. The development of the United States is followed from its beginnings as an agriculturally based infant Republic to its current position as an industrial/technological world power. U.S. History I, II and III are each one trimester courses. Students must take and successfully complete U.S. History I before taking U.S. History II and U.S. History II before taking U.S. History III. U.S. History I covers through the Civil War; U.S. History II covers through World War II

American Studies CP **Grade 10/ 4 Trimesters/ 8 Credits**

What does it mean to be an American? What is the American experience? How are these ideals depicted in literature? How do historical events affect literature and vice versa? These are only some of the questions we will explore throughout our two trimesters together. Throughout American history, authors have voiced their American experience and views through the eyes and voices of their literary characters. American Studies is designed to connect the literary masterpieces and movements that define America with historical events, issues, and ideals, and explore the cause and effect relationship between the two disciplines.

- To Enroll: Completion of English I and Global Studies.
- Note: Students who successfully complete this class will fulfill the American Literature, U.S. History I and U.S. History II diploma requirements.

AP United States History I **Grade 10/ 2 Trimesters/ 4 Credits**

The Advanced Placement U.S. History program is designed for students with strong academic skills who have a special interest in American History and/or who may be considering pursuing a major in history or related fields, such as pre-law or political science at the college/university level. The AP program requires a five - trimester commitment (two trimesters in grade 10, three in grade 11). All AP students are required to take the national AP U.S. History exam during the fifth trimester of the program.

The first year of this course involves the student in an in-depth study of the history of America from the Pre-Columbian Period to the 1880s. Special emphasis is also placed on the structure of American government, the U.S. Constitution, and the political process. Students are also introduced to historic research, structuring a historic research paper, and interpreting DBQs (document-based questions).

- To Enroll: Requires teacher recommendation.

Junior Classes

<u>United States History III CP/ES</u> Grade 11/ 1 Trimester/ 2 Credits
U.S. History I, II and III will explore the events, people, ideas and circumstances that formed the American nation. The development of the United States is followed from its beginnings as an agriculturally based infant Republic to its current position as an industrial/technological world power. U.S. History I, II and III are each one trimester courses. Students must take and successfully complete U.S. History I before taking U.S. History II and U.S. History II before taking U.S. History III. U.S. History III covers the present day with an in-depth look at contemporary U.S. History.

<u>AP United States History II</u> Grade 11/ 3 Trimesters/ 6 Credits
The second year of the U.S. History (AP) program involves the student in an in-depth study of American history from the late 19 th century to the present. Special emphasis is also placed on current historical issues, analysis of primary sources DBQs, and preparation for the National AP exam. Second year students are required to complete an extensive reading list and conduct an in-depth research project based on primary and secondary sources and in some cases, interviews. All students must participate in the National AP US History examination.
<ul style="list-style-type: none">• To Enroll: Completion of Advanced Placement US History I and recommendation of the instructor.• Notes: There is a required summer assignment. Completion of AP US History I & II fulfills USH I, II, III and the Social Studies concentration requirements.

Concentration Courses

In addition to United States History III, juniors are required to take a social studies concentration course.

Senior Classes

<u>Economics H/CP/ES</u> Grade 11 or 12/ 1 Trimester/ 2 Credits
An Economic Way of Thinking explores the fundamental principles of how and why economic decisions are made on a personal, national, and international level. As students gain an understanding of how scarce resources are utilized and distributed and why economic decisions are made, they will analyze the role that economic thinking plays in their daily lives. Students will examine the essential concepts necessary to evaluate options and make decisions utilizing an economic way of thinking. Topics covered will include opportunity cost, supply and demand, government regulation, personal finance, and the business cycle. The concluding unit will examine comparative economic systems with a focus on the underdeveloped world.
<ul style="list-style-type: none">• To Enroll: Global Perspectives and US History.

Foundations of Democracy H/CP/ES
Grade 12/ 1 Trimester/ 2 Credits

Foundations of Democracy focuses on helping students acquire the skills and knowledge necessary to become active contributing citizens. The fundamental premise of the course is that the responsibilities of citizenship are learned through practical engagement in community life. Students will critically examine both the promises and challenges of American democracy through a series of interactive activities ranging from classroom simulations to applications in real life. Students will research the U.S. Constitution and its origins, and examine the functions and responsibilities of government at the federal, state, and local levels. This course is required for graduation.

History Concentrations

One is required in the junior year. Students may elect to take more as elective choices.

Asia Rising
Grades 9-12/ 1 Trimester/ 2 Credits

This course provides an in-depth look at the often-misunderstood continent of Asia. While the study of Asian history is one component of the course, culture, geopolitics, colonial legacies, nationalist movements and current events are also important areas of focus. What is the truth behind the Juche policy in North Korea? Who is Aung San Suu Kyi and why is the military junta holding her captive? Is China the world's bogeyman? Why is Japanese society so old? Who are the heroes of modern Asia? These are just a few of the questions that will be explored in Asia Rising.

Modern Issues
Grades 9-12/ 1 Trimester/ 2 Credits

When you turn on the news, would you like to understand what you are hearing more fully? Do you have strong opinions about current conflicts? Do you enjoy listening to diverse opinions and debates? Modern Issues is a course built around the interests of the students enrolled. The focus of the course will be to learn about student selected contemporary problems by investigating the issues, existing varied perspectives, and future implications.

This Is Africa
Grade 9-12/ 1 Trimester/ 2 Credits

This course provides an in-depth look at the often misunderstood continent of Africa. While the study of African history is one component of the course, culture, geopolitics, colonial legacies, nationalist movements and current events are also important areas of focus. What is the truth behind the "blood diamonds" in countries like Sierra Leone? Why doesn't oil equal prosperity in Nigeria? Why is Ethiopia the only country to have successfully staved off European imperialism, so powerless today? Who are the heroes of modern Africa? These are just a few of the questions that will be explored in This is Africa.

<p style="text-align: center;"><u>World History Part I</u> Grade 9-12/ 1 Trimester/ 2 Credits</p>
<p>This course offers an opportunity to explore the early history of our world. In a largely non-western approach, students will explore the many fascinating civilizations, individuals, and events that influenced the foundations of human history from approximately 8000 BCE to 1450 CE. We will journey through ancient river valley civilizations such as Egypt and Mesopotamia, study the rise of dynastic China, the Mongols and Genghis Khan, explore the Silk Road with Marco Polo, examine the rise of Islam in the Middle East, investigate myths and legends surrounding the Aztecs, Incas, and Maya.</p>
<ul style="list-style-type: none"> • Note: offered every other year (2023-2024, 2024-2025) • Note: World History II can be taken before World History I.

<p style="text-align: center;"><u>American Civil War</u> Grade 9-12/ 1 Trimester/ 2 Credits</p>
<p>From 1861-1865 America was at war with itself. The conflict, labeled by many historians as the defining event in the history of the United States, became known as the American Civil War. This course, designed for students with a special interest in this era, will follow the Civil War from its causes to the controversies that still surround it today. Special attention will be paid to the slavery issue, the military campaigns of the conflict, leaders, military and political strategies, and the concept of the Civil War as the world's first "modern war."</p>

<p style="text-align: center;"><u>Crime and Punishment I</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>The subject matter introduced in this course includes a study of crime, criminal law, and court procedures. Time is also devoted to the study of our penal system. Students should expect to participate in a mock trial.</p>

<p style="text-align: center;"><u>Crime and Punishment II</u> Grade 10-12/ 1 Trimester/ 2 Credits</p>
<p>This course in civil law focuses on student civil rights and personal legal responsibilities. The primary areas of study include First Amendment rights, discrimination, rights in the workplace, and legal issues involving family, housing, consumers, and negligence. Projects, role-plays, and mock trials are utilized to provide a better understanding of the legal process.</p>
<ul style="list-style-type: none"> • To Enroll: Completion of Crime and Punishment I.

<p style="text-align: center;"><u>Europe Reborn</u></p> <p style="text-align: center;">Grade 9-12/ 1 Trimester/ 2 Credits</p>
<p>Medieval Europe was dark and yet the art, the Catholic Church, knights and peasants rose to create an era of color, sound and power. Disease and politics of intolerance were overcome and the European world was reborn and never looked back. Study about the glory years of European cultural, political, and economic dominance started in Italy and spread throughout the world and these are the legacies that changed the world.</p>
<ul style="list-style-type: none"> Note: offered every other year (2021-2022,2023-2024). Intermittent with History of Media.

<p style="text-align: center;"><u>History of Media</u></p> <p style="text-align: center;">Grade 10-12/ 1 Trimester/ 2 Credits</p>
<p>This course examines the history and development of mass media in America - in all its political, legal, cultural and technological dimensions. From creating mass images and messages to accumulation of fortune and fame, from politicians' stump speeches to political debates and ads on TV, from local musicians entertaining at local venues to jukeboxes and canned music, from a handwritten note to emails and "IM-ing", let's face it folks "the medium is the message." Let us see how that came to be. How did we get from "then" to "now" - media wise?</p>
<ul style="list-style-type: none"> Note: offered every other year (2022-2023, 2024-2025). Intermittent with Europe Reborn.

<p style="text-align: center;"><u>Political Process</u></p> <p style="text-align: center;">Grade 10-12/ 1 Trimester/ 2 Credits</p>
<p>This course focuses on the candidates campaigning in elections, the history of the Presidential primary, and the primary and political process in general. Students should be willing to become involved in an actual campaign and/or monitor the process up close and personal. Students do not have to be Democrats, Republicans, Greens, Libertarians, or Independents, nor do they have to know about politics or electioneering. Students venture out of the classroom and out of the house on a regular basis to view the campaigns in action.</p>

<p style="text-align: center;"><u>Psychology</u></p> <p style="text-align: center;">Grade 11-12/ 1 Trimester/ 2 Credits</p>
<p>This course is for those students interested in the study of human behavior, motivation, and adjustment. It is intended to help students to understand themselves and others. A student selecting Psychology should enjoy independent study, reading, participating in debates on issues, and be intensely interested in and curious about the forces that influence human behavior. Special focus is on the major theorists in psychology, methods of communication, development of masculinity and femininity, interpersonal relationships, and social attitudes.</p>
<ul style="list-style-type: none"> Note: Freshmen and Sophomores are not eligible for this class.

Sociology

Grade 11-12/ 1 Trimester/ 2 Credits

This course studies the interaction of people in groups, people as they exist within their institutions and cultures, and their behavior and attitudes in relation to current social problems. A student electing the course should enjoy independent study, reading, and participation in debates on issues and be intensely interested and curious about the present changing world.

- Note: Freshmen and Sophomores are not eligible for this class.

Sports and Society

Grade 10-12/ 1 Trimester/ 2 Credits

Sports and Society explores the social and cultural impact of sport in American life and the relationship between the two. Students will investigate the influences that have shaped the development of amateur and professional sports, while examining the historical context of sports in American culture. The course will pay particular attention to the current political, economic and social issues of sports in America. Topics include racism and the integration of sports, sports and politics on the international scene, Title IX and the rise of women's sports, the marriage of sports and business, and America's pastime and the war years 1941-1945.

The Sixties

Grade 10-12/ 1 Trimester/ 2 Credits

The Sixties requires students to drench themselves in the history of people in an era, the events which forever altered our vision as a society, and to use that which we were left with to promote an understanding of events now. The richness of the 1960's is still with us today in all we do. This course will look at the counterculture in America and how it changed our society. If you went to sleep in 1958 and awoke within the next fifteen years, would you recognize America? This course examines the dramatic changes which consumed American society and the people and the institutions affected by those changes. What were the causes of these changes, and now more than fifty years later, how have those experiences defined who we are? Students will look into the seeds of this revolution. This investigation will undoubtedly lead to an awareness of where we are now

Vietnam Revisited

Grade 10-12/ 1 Trimester/ 2 Credits

Vietnam Revisited focuses on the conflict during the turbulent 1960s and 1970s when the Cold War had begun to sizzle. Students will explore the causes and effects of the war front in Vietnam and the home front in America. Reading, writing, and research will be assigned, covering a multitude of interesting topics that span from the cultural to the technological. Past and present day will be compared along with the effects on the American psyche. Opposing student viewpoints towards the war will be examined through projects and presentations.

Women's Studies

Grade 9-12/ 1 Trimester/ 2 Credits

The Women's Studies course takes a holistic approach to the study of American women. In this course students will look historically at the role of women as well as how women have gained rights in the United States. Students will also study issues that relate to women today including social, physical and emotional issues. Some topics of study include the Feminist Movement, Women's Suffrage, Body Image, Healthy Relationships, Salem Witchcraft Trials and mental health. The course will utilize guest speakers, field trips, projects and class discussion.

World War II

Grade 10-12/ 1 Trimester/ 2 Credits

Students enrolling in this course will conduct an in-depth exploration of the Second World War from its causes to its aftermath. Focus will be on the rise of fascism, the causes of the war, the Pearl Harbor attack and US entry into the war, the home front, the concept of the "two front war," civilian and military leaders of the W.W.II era, the European and Pacific theaters of war, the "shadow war" (espionage, intelligence, and sabotage), the Holocaust, war "consciousness," propaganda, and the weaponry, technology, strategy, and tactics of the war. The course will conclude with an examination of the war's immediate aftermath and the long-term effects of the conflict.

World History Part II

Grade 9-12/ 1 Trimester/ 2 Credits

World History Part II continues the historical journey begun in *World History Part I* (please note – completion of World History I is not necessary for enrollment in World History II). The range of time addressed in this course's content is roughly from 1450 CE to the present day. Again, with a primarily non-western approach to history, students will gain a greater understanding of the world around them by studying the major civilizations, individuals, and events that have shaped humanity into what it is today. Suleiman the Magnificent and the zenith of the Ottoman Empire, the Taj Mahal and other cultural impacts of the Mughal Empire in India, Samurai warrior culture in Japan, "Che" Guevara and the Cuban Revolution, and Ayatollah Khomeini and the Iranian Revolution are just a sampling of some of the topics that we will examine in this course.

- Note: offered every other year (2021-2022, 2023-2024). Intermittent with WH1
- Note: World History Part I is not required to take World History Part II.

World Languages

Level Options	Spanish	French	Latin
Level 1: Introduction & Foundation	Spanish 1	French 1	Latin 1
Level 2 Minimum for 4-year colleges	Spanish 2	French 2	Latin 2 Pt.1 Latin 2 Pt.2
Level 3 Recommended for competitive 4-year colleges	Spanish 3 Part 1 Spanish 3 Part 2	French 3 Pt.1 French 3 Pt.2	Latin 3 Part.1 Latin 3 Part.2
Level 4 Recommended for continued language study at the college level	Spanish 4 Pt.1 Spanish 4 Pt.2	French 4 Pt.1 French 4 Pt.2	Latin 4 Part 1 Latin 4 Part 2
Level 5 Recommended for continued language study at the college level	Spanish 5 Part 1 Spanish 5 Part 2	--	Latin 5 Part 1 Latin 5 Part 2

World Language Placement

Grade 9 students may enter in Latin 1, French 1 or Spanish 1. They may also be eligible for French 2 or Spanish 2.

Appropriate placement is based on the following factors:

1. Previous middle school world language experience
2. Success on the WHS WL confirmation exam in French and Spanish
3. 8th grade teacher and guidance counselor recommendation

Placement for current WHS students is based on:

1. Previous success in WHS language course
2. Past World Language teacher recommendation

<p style="text-align: center;"><u>French I (CP)</u> Grades 9-12/ 3 Trimesters/ 6 Credits</p>
<p>French 1 is a full year course in which students are introduced to the French speaking world. They are introduced to many aspects of francophone (French speaking) culture—including sports and activities, food, school life, and travel—with a special focus on Paris. Through a variety of methods, students learn to communicate about their interests and daily life, and to interpret short reading passages and videos.</p>

<p style="text-align: center;"><u>French II (CP)</u> Grades 9-12/ 3 Trimesters/ 6 Credits</p>
<p>French 2 is a full year course which continues many of the themes presented in French 1. Students learn more about the regions of France and the European countries that border France. Using more complex grammatical concepts, students are able to communicate about past and future activities, and to describe home and leisure activities. The highlight of this course is a field trip to a French restaurant.</p>
<ul style="list-style-type: none"> • To Enroll: 77% in French I coursework or teacher recommendation.

<p style="text-align: center;"><u>French III Part I & 2 Honors</u> Grades 10-12/ 2 Trimesters/ 4 Credits</p>
<p>This is a two- trimester Honors level sequence. Greater emphasis is placed on speaking in class, and listening skills are honed with the continuation of the Pierre video series. Students will also build vocabulary and use more complex grammar skills to read and write about home life, vacation and travel plans. Introduction to French history and literature is reinforced with stories like Cyrano de Bergerac and Les Misérables.</p>
<ul style="list-style-type: none"> • To Enroll: 77% in French II coursework or teacher recommendation.

<p style="text-align: center;"><u>French IV Part 1 & 2 Honors</u> Grade 11-12/ 2 Trimesters/ 4 Credits</p>
<p>This is a two- trimester Honors level sequence designed to extend proficiency in oral and written communication. Music, video, and film are used to practice and refine listening and comprehension skills. Reading excerpts are taken from short stories, poetry and literature of the Francophone world. Students are given a choice of topics to explore in depth. French 4 is strongly recommended for students anticipating a competitive four year college program.</p>
<ul style="list-style-type: none"> • To Enroll: 77% in French III coursework or teacher recommendation.

<p style="text-align: center;"><u>Spanish I (CP)</u> Grade 9-12/ 3 Trimesters/ 6 Credits</p>
<p>Spanish I is a full year course which focuses on basic conversation, vocabulary and an introduction to grammar through a general exploration of Hispanic culture around the world and specifically in Spain.</p>

<p style="text-align: center;"><u>Spanish II (CP)</u> Grade 9-12/ 3 Trimesters/ 6 Credits</p>
<p>Spanish II is a full year course which focuses on intermediate grammar, expanded vocabulary and more complex conversation through the continued exploration of Hispanic culture specifically in the Caribbean (Dominican Republic, Puerto Rico, Cuba, Florida) and the southern countries of South America (Chile, Argentina, Uruguay and Paraguay).</p>
<ul style="list-style-type: none"> • To Enroll: 77% in Spanish I coursework or teacher recommendation.

<p style="text-align: center;"><u>Spanish 2.5 CP</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This is a one trimester course to prepare students for honors level rigor in level 3 through immersion and reinforcement of grammar and vocabulary from levels 1 and 2. Course content will be informed by initial student assessments at the beginning of the course. Course may be taken by students who have successfully completed Spanish 2.</p>
<ul style="list-style-type: none"> • To Enroll: Teacher recommendation • Note: This course will not count for NCAA eligibility.

<p style="text-align: center;"><u>Spanish III Part 1 & 2 H</u> Grades 10-12/ 1 Trimester/ 2 Credits</p>
<p>This is a two-trimester Honor's level sequence. Telling stories in the past will lead us into an introduction of advanced verb use with strong emphasis on writing and speaking through the cultural lenses of Central America (Panama, Costa Rica, Honduras, Guatemala, El Salvador and Belize) and the countries of Venezuela, Colombia, Peru, Bolivia and Ecuador.</p>
<ul style="list-style-type: none"> • To Enroll: 77% in Spanish II coursework or teacher recommendation.

<p style="text-align: center;"><u>Spanish IV/ Spanish V</u> Part 1 & 2 Honors Grades 11-12/ 1 Trimester Each/ 2 Credits</p>
<p>This is a two- trimester sequence designed to explore Spanish grammar at an advanced level and to examine authentic Hispanic literary beginning with Mexico and the United States and continuing with an in-depth study of specific Hispanic regions chosen by the teacher. Effective oral and written</p>

communication is the goal of Spanish IV and V. Students will be expected to speak Spanish.

- To Enroll: 77% in Spanish III coursework or teacher recommendation.
- Note: Spanish IV is a dual enrollment course with SNHU, offering students the option to earn three college credits through Southern New Hampshire University for \$100.

[Latin I CP](#)

Grades 9-12/ 3 Trimesters/ 6 Credits

The Latin language is a key with which students pass through the portals of time to discover the cultural heart of the West. Through Latin we discover ideas that have spanned over two-thousand five-hundred years: philosophy, mythology, theology, etymology, history, and more. In Latin I, students will learn the basic grammatical framework of the language as well as the essential vocabulary necessary to access its literary tradition. Students will focus on the four competencies of language learning: reading, writing, listening, and speaking. Students will also study classical civilization. Students are encouraged to join the National Junior Classical League.

[Latin II CP](#)

Grades 10-12/ 2 Trimesters/ 4 Credits

In Latin II students will master advanced Latin grammar, syntax, and vocabulary. They will read, in Latin, the life of Hercules and the adventures of Jason and the Argonauts, as well as a survey of Latin history and additional Latin texts. Students will also read mythological tales from Ovid's Metamorphoses and study the fundamentals of meter and scansion. They will also explore Roman theater through the comedies of Plautus. Students, who are members of the Junior Classical League and who maintain an "A" average as well as a "Proficient" or better in the four competencies (reading, writing, listening, and speaking), will be eligible for the National Latin Honors Society.

- To Enroll: 77% in Latin I coursework or teacher recommendation.

[Latin III Part 1 & 2 Honors](#)

Grades 11-12/ 2 Trimesters/ 4 Credits

[Latin IV Part 1 & 2 Honors](#)

Grades 11-12/ 2 Trimesters/ 4 Credits

In advanced Latin study, students embark on a literary exploration of pre-modern Western civilization. Diverse authors, themes, and time periods are explored. Students will read both prose and poetry, deepening their understanding of meter and scansion. Students will also describe their understanding of the subtleties of Latin language mechanics through an in-depth study of traditional Latin composition. Students, who are members of the Junior Classical League and who maintain an "A" average as well as a "Proficient" or better in the four competencies (reading, writing, listening, and speaking), will be eligible for the National Latin Honors Society.

- To Enroll: 77% in previous coursework or teacher recommendation.

Seacoast School of Technology

The Seacoast School of Technology is this region's Career and Technical Center, serving students from Epping, Exeter, Newmarket, Raymond, Sanborn Regional and Winnacunnet high schools.

The Seacoast School of Technology programs offer elective coursework in cutting-edge technologies to enhance traditional high school curricula. Students spend two periods of their school day on our state-of-the-art campus in Exeter. Programs at the Seacoast School of Technology consist of two, year-long classes that meet every day for an hour and a half. Open for sophomores through seniors.

For more information about the Seacoast School of Technology, speak with your guidance counselor, call SST at 775-8461 or visit www.SeacoastTech.com.

SST First Year Programs

Animal & Plant Science I - NH Scholars Lab Science

Do you love animals? Making things grow? Learn to expertly care for living things and prepare yourself for a career as a veterinarian, vet tech, barn/farm/greenhouse manager, floral designer and many other careers working with animals and plants. You'll learn to care for and handle companion animals, recognize behavior, and begin on the road to veterinary care for both large and small animals. You will study aquariums to allow you to experience not only pet shop management, but being a responsible pet owner. You will also study aquaculture to allow you to gain hands-on experience on raising food for consumption.

- To Enroll: Completion of Biology
- Note: This program meets the 3rd year science diploma requirement at WHS.

Automotive Technologies I

Calling all gearheads! Using Snap-on hand tools and the same computer diagnostic equipment found in well-equipped car repair facilities, learn bumper to bumper automotive systems and their repair. Hone your skills by working on customer and donated vehicles in a live shop that includes 13 bays, a parts room, 8 lifts, an in-ground alignment system and much more. Selected students have the opportunity for internships at a local dealership or repair facility. This program is certified through the National Automotive Technicians Education Foundation (NATEF).

- Note: This program meets the Advanced Computer Technology (ICT) requirement at WHS.

Biomedical Science & Technology I

Working in a state-of-the-art lab, you will be on the cutting edge of science studying molecular genetics, cancer biology, microbiology and more. You will gain techniques and knowledge that will prepare you to pursue careers in medicine, genetics, pathology, forensics and other science-related fields.

- Note: This program meets the Biology requirement at WHS.

Building Construction Technologies I

Are you the type of person who takes pride in being able to create things with your own two hands? Learn basic skills in carpentry, hand and power tool safety, framing, remodeling, materials usage, green building and much more. You'll perfect your skills by working on a variety of real construction and renovation projects in our local community, and by the end of the year you will have the know-how to make a building weathertight.

Careers in Education I

A program for those who want to work in a variety of educational roles. Whether you plan to work with children of any age, teenagers or adults, this writing-intensive program is the first step toward a career in the field of education. In addition to teaching in the Wright Start Preschool and job shadows in a variety of settings, you will also study theories of development and learning, foundations of education, classroom management, lesson planning and methods of instruction.

Computer Science I - NH Scholars Lab Science

Introduction to Computer Science Offered Semester 1

Utilizing the Python programming language, you will learn what it takes to write your own computer programs. With an emphasis on computational thinking and problem-solving, develop the skills to find novel methods of finding problem solutions. This course will form the foundation for all future study in the field of Computer Science.

C# Offered Semester 2

This course will provide you with an understanding of structured, procedural and event-driven programming. Develop techniques for problem solving through the application of a variety of programming techniques and gain experience in program planning, design, and coding as you complete lab work and assignments. Plan, design, code and test a variety of computer programs including games, simulations and productivity applications. You will learn to use the Visual C# .NET programming language and integrated development environment.

- Note: This program meets the Advanced Computer Science requirements at WHS.

Culinary Arts I

If you're interested in learning introductory skills for a career in the world of Culinary Arts and Restaurant Management, look no further! With daily hands-on activities and training, you'll soon be able to produce perfect knife cuts and cook restaurant quality meals from scratch. You will learn the importance of food basics, savory cooking and baking, knife skills, sanitation, nutrition and developing your palate while exploring regional cuisines. This course will also emphasize the appropriate standard of behavior and uniform that is set by culinary professionals.

<u>Digital Media Arts I</u>	
<p style="text-align: center;">Graphic Design Offered Semester 1</p> <p>The art class of the new millennium... If you're an artist and you want to harness the power of technology to help you express your creativity, then this course is for you. Backed with a strong influence from the fine arts, this course focuses on the concepts of good design and uses computer software such as Adobe Photoshop, Illustrator and InDesign to foster student creativity.</p>	<p style="text-align: center;">Animation Offered Semester 2</p> <p>Breathe life into your artwork and make your creations come alive! Utilizing computer programs from Autodesk and Adobe, you will learn how to transform two-dimensional artwork into three-dimensional, digitally animated models.</p>
<ul style="list-style-type: none"> Note: This program meets the Advanced Computer Science (ICT) requirement at WHS. 	

<u>Health Science Technologies I</u>
<p>If you're thinking about any career in the health field, like becoming a doctor, nurse, physical therapist, dentist or even an EMT, then this course is for you. Learn about the human body and help people get and stay healthy. You will earn your First Aid certification while exploring human anatomy and physiology, medical terminology, safety, and legal and ethical issues within the health fields.</p>
<ul style="list-style-type: none"> To Enroll: Completion of Biology Note: This program meets the 3rd year science requirement at WHS.

<u>Marketing Technologies I</u>
<p>Want to be your own boss? Have a great idea for a new business or product that will revolutionize the way people live? Learn about a career in the business world by studying entrepreneurship, management, sports and entertainment marketing, fashion-merchandising, e-commerce, hospitality and tourism, and the impact of social media on today's marketing campaigns. You'll create and develop your own product and learn how to market it to the world, as well as help to operate the Upper Deck, SST's school store.</p>

<u>Pre-Engineering I</u>	
<p style="text-align: center;">Introduction to Engineering Design Offered Semester 1</p> <p>Want to find out how to turn your innovative ideas into reality? Engineers are involved in everything that has ever been designed, built or manufactured. In this course, you will learn about the varied roles engineers play in our society, discover new career paths and possibilities, and develop engineering knowledge</p>	<p style="text-align: center;">Principles of Engineering Offered Semester 2</p> <p>Make the leap from dreamer to doer! Engineers serve society by using engineering principles to develop solutions to technical problems and explore multiple manufacturing processes and technology systems. Come and participate in compelling, real-world challenges that will help you become a better collaborator and thinker.</p>

and skills, such as creating models and prototypes (physical and virtual).	
<ul style="list-style-type: none"> To Enroll: Completion of Algebra I 	

<u>Welding Technologies I</u>
<p>If you're scared of melting metal, flying sparks, or holding torches in your hands that are hotter than the surface of the sun, then Welding Technologies is probably not for you. Still interested? You'll learn the basic techniques of electric arc welding, oxyacetylene and plasma cutting, brazing, soldering and blueprint reading. This class is ideal for students interested in the metal trades including welding, machining, plumbing and for artists who want to work with metal.</p>

SST Second Year Programs

<u>Animal & Plant Science II - NH Scholars Lab Science</u>
<p>Continue to build on your experience with animals, plants, farming, forestry and agriculture. You'll spend several months at a local horse barn studying equine science, learn more about greenhouse management and horticulture, explore animal nutrition and reproduction, and complete a week-long internship in an area of personal interest. Participation and competition in local and national FFA events is strongly encouraged.</p>

<u>Automotive Technologies II</u>
<p>Continue your automotive training by working in our live car repair and state inspection facility. Perform more complex repairs and tasks ranging from light mechanical, to routine maintenance, to parts ordering. You'll complete units on engine performance and diagnostics, suspension and steering, four-wheel alignment, earn your ASE Maintenance and Light Repair certification, and position yourself for a career in the automotive industry.</p>
<ul style="list-style-type: none"> Note: This program meets the 4th year math exposure requirement at WHS. Note: Dual Enrollment available.

Biomedical Science & Technology II

This capstone course is an in-depth exploration of emerging technologies and innovations within the scientific community. You will explore current biotechnological applications in medicine, agriculture, forensics, and the environment. Covered topics include gene modification, protein microarrays, directed mutagenesis, bioinformatics, DNA sequencing, and more. You will also have the opportunity to complete a focused internship with one of our many professional partners, and perform your own critical, original research.

- Note: Dual Enrollment available.

Building Construction Technologies II

Continue to polish your technical building skills and examine topics such as energy efficiency, interior work and trim, blueprint reading and drafting using AutoCAD. You'll put your knowledge to good use by building structures in the community such as homes, garages, sheds and more. By the time you complete this program you will be capable of doing all interior and exterior carpentry work on building projects large and small, and be ready to enter leadership programs for construction project managers.

- Note: This program meets the 4th year math exposure requirement at WHS.

Careers in Education II

Continue to learn the craft of educating others. Coursework includes classroom management, curriculum development, differentiated instruction, best instructional practices and special education. Alongside advanced classroom instruction and teaching in the Wright Start Preschool, you will gain real-world experience in your preferred concentration area and create a professional teaching portfolio tailored to your specific goals. Internships are available for preschool, elementary, middle and high school, art/music/physical education, special education, physical/occupational/speech & language therapy and early childhood education administration. This course is an excellent opportunity to continue exploring education-related professions and decide which career path to pursue in college.

- Note: Dual Enrollment available.

<u>Computer Science II - NH Scholars Lab Science</u>	
<p>Java Offered Semester 1</p> <p>The Java programming language is the major force behind the World Wide Web and found running on over 3 billion computational devices on the planet. Further refine your understanding of object-oriented design and learn to build applets that can run on devices ranging from desktop computers to mobile devices.</p>	<p>C++ Offered semester 2</p> <p>C++ is the industrial heart of the computer software industry and is the major development tool used to create major applications used by millions of people every day, as well as some of the latest video games. Control structures, functions, data types, arrays, and pointers will be explored, along with an introduction to basic data structures.</p>
<ul style="list-style-type: none"> Note: This program meets the 4th year math exposure requirement at WHS. Note: Dual Enrollment available. 	

<u>Culinary Arts II</u>
<p>Expand on your cooking and baking skills while exploring the cooking techniques and cultural aspects of American and International cuisines. You will also learn to perform all duties of a live, licensed restaurant including menu preparation, cost analysis, food service, ServSafe procedures and kitchen, dining room and restaurant management.</p>
<ul style="list-style-type: none"> Note: Dual Enrollment available.

<u>Digital Media Arts II</u>	
<p>Web Design Offered Semester 1</p> <p>Design your own web pages using the same techniques as professional graphic designers and web developers. Using Cascading Style Sheets (CSS) and the Adobe Design Premium Suite, you'll learn best practices in designing for the web and sharpen your skills by creating multiple web pages on topics of your choice.</p>	<p>Video Production Offered Semester 2</p> <p>Learn how to operate all of the equipment in a cutting-edge video production studio that includes a green screen, high definition cameras, sound and lighting control room and much more. You will film, edit, and produce videos for both personal and commercial purposes using the editing software Premiere and after Effects.</p>
<ul style="list-style-type: none"> Note: Dual Enrollment available. 	

Health Science Technologies II

Dive deeper into the complexities of the human body by completing units on CPR and the cardiorespiratory, gastrointestinal, reproductive, endocrine and nervous systems. In addition to classroom and lab work on the SST campus, you'll also gain real-world experience through a six-week internship in a local healthcare facility. Some students will have the opportunity to earn their Licensed Nursing Assistant (LNA) Certificate.

- Note: Dual Enrollment available.

Marketing Technologies II

You'll complete an individualized curriculum that is tailored to your personal business interests and aspirations. Recent areas of specialization include business management, sports and entertainment marketing, hospitality, fashion, event planning, advertising, entrepreneurship, business law, international business and finance. You'll also work on real-life projects within the community, and organize and run the Small Business Showcase, to showcase local businesses.

- Note: Dual Enrollment available.

Pre-Engineering II

Digital Electronics Offered Semester 1

Investigate how machines think and work! Using applied logic, you will learn about electronics and digital systems, explore engineering design, build circuits and develop electronics troubleshooting techniques.

Civil Engineering & Architecture Offered Semester 2

Study the way that man-made structures such as buildings, dams, bridges and roads affect our environment and the way we live. Through a series of hands-on projects and guest speakers with expertise in a variety of topics, you will learn about the complex infrastructure that makes society work.

- Note: Dual Enrollment available.

Welding Technologies II

Enhance your welding skills by working with different alloys like aluminum, stainless steel and cast iron, learning different techniques and welding positions, performing actual jobs of metal fabrication, job shop repair, and opportunities of programming a Torchmate plasma cutting system. At the completion of this course, you will have earned your OSHA safety training certificate and have enough skills and experience to take your certification tests in GMAW (MIG), SMAW (Stick) and GTAW (TIG) welding.

- Note: This program meets the 4th year math exposure requirement at WHS.
- Note: Dual Enrollment available.

Athletic Programs

Fall Programs	
Football	Boys
Soccer	Boys & Girls
Cheerleading	Boys & Girls
Cross Country	Boys & Girls
Golf	Boys & Girls
Field Hockey	Girls
Bass Fishing	Boys & Girls
Volleyball	Girls

Winter Programs	
Ice Hockey	Boys & Girls
Cheerleading	Boys & Girls
Basketball	Boys & Girls
Indoor Track	Boys & Girls
Wrestling	Boys
Swimming & Diving	Boys & Girls
Alpine Skiing	Boys & Girls
Nordic Skiing	Boys & Girls
Bowling	Boys & Girls

Spring Programs	
Baseball	Boys
Lacrosse	Boys & Girls
Volleyball	Boys
Softball	Girls
Tennis	Boys & Girls
Track & Field	Boys & Girls

[WINNACUNNET HIGH SCHOOL CLUBS & ORGANIZATIONS 2022-2023](#)

Club/Organization	Grade	Advisor (s)	Location
Freshman Class	9	Mrs. Cutts & Mrs. Michaud	B114
Sophomore Class	10	Mrs. Ferzoco & Mrs. Waterhouse	Guidance
Junior Class	11	Mrs. Borden & Mr. Printzlau	D114/0116
Senior Class	12	Mr. Connolly & Mrs. Roberge	E101
Student Council Advisor	9-12	Mrs. Fegan	Guidance
American Sign Language Club	9-12	Ms. Ash & Ms. Jimenez	D115
Anime/Manga Club	9-12	Mrs. Ash	D115
Astronomy	9-12	Mrs. Woodsmith	B213
Best Buddies Club	9-12	Mrs. Allen	F125
Close-Up	9-12	Mr. Gushee & Ms. Trahan	C210
Cycling Team	9-12	Mr. Phillips	C216
Down the Line	9-12	Mrs. Richards	C116
Diversity Student Alliance	9-12	Mr. Wallace	C211
FinLit 300 (formerly LifeSmarts)	9-12	Mrs. Harris	E104
Gay/Straight/Trans Alliance	9-12	Mrs. Svanholm	Nurse's Office
Girl Up	9-12	Mrs. Sarah Edgar	A122
Granite State Challenge	9-12	Mr. Fleming	C215

Human Rights Club	9-12	Mrs. Johnson & Mrs. Brown	C209
Interact	9-12	Mrs. Osborne	Library
International Thespian Society	9-12	Mrs. Larivee	A121
Latin Club	9-12	Ms. Brooks	C117
Literary Magazine	9-12	Mrs. Harris & Mrs. McKenney	E104
Marching Band/Pep Band Advisor	9-12	Mr. Martin	A106
Marine Corps JROTC	9-12	Lt. Col. Eric Drown & MSgt. Real	ROTC Bldg.
Math Team	9-12	Mrs. Cutts & Mrs. Michaud	B113/B114
Musical Choral Conductor	9-12	Mr. Patrick Moore	A107
Musical Orchestra Conductor	9-12	Mr. Martin	A106
National Business Honor Society	11-12	Mrs. Harris	E104
National Honor Society	11-12	Mr. Myers	B206
Newspaper	10- 12	Mr. Michaud	B103
Play Production - Fall	9-12	Mr. Moore	A107
Poetry Out Loud	9-12	TBD	
Project Search	11-12	Mr. Gushee & Mrs. Roberge	C210

Positive Pathways (Project Unity)	9-12	Ms. D'Amico & Mrs. Couture	ELO Office
Quill & Scroll International	9-12	Mrs. Harris	E104
Tabletop Gaming Club	9-12	Ms. Brooks	C117