

Norwood High School
Program of Studies
2024-2025



NORWOOD, MASSACHUSETTS

www.norwood.k12.ma.us/nhs

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Principal's Message

The Norwood High School Program of Studies includes course descriptions that assist you as you plan your academic selections for the upcoming year and create an academic plan for your high school career. You are encouraged to challenge yourself academically by enrolling in courses that demand excellence in your schoolwork and will advance you towards your college, career, and future goals. Greater detail about a course can be provided by faculty, department chairs, and guidance counselors. Promotion requirements, graduation requirements, and prerequisites are also laid out clearly.

Our goal is to facilitate the growth of “The Five C’s” of the Portrait of a Norwood Graduate. These skills - creativity, collaboration, critical thinking, communication, and citizenship - have been identified by your peers, teachers, administrators, college and career partners, and community partners as necessary for your success both at NHS and beyond. These themes are integrated into the course descriptions. As you select courses, it is important to involve your parents, teachers, department chairs, and guidance counselor in the decision-making process. Our dedicated staff will provide you with the support, encouragement, and structure that can assist you in selecting courses that will develop these skills.

Families, I encourage you to participate actively in the course selection process this year as your student makes decisions about his/her academic plan for next year. Your involvement is critical to ensuring that your child enrolls in the appropriate courses and makes decisions that will have a positive impact on his/her future goals and aspirations. If you have questions, please do not hesitate to contact your student’s guidance counselor, teacher, or an administrator. I look forward to seeing you achieve success.

Best Wishes,

Hugh T. Galligan, Ed.D.

Principal

Notice of Nondiscriminatory Policy of Norwood Public Schools

Federal laws prohibit discrimination on the basis of educational programs or activities receiving financial assistance in accordance with the requirements of Title IX of the Educational Amendments of 1972. The Norwood Public School System hereby makes notice that it does not discriminate based on a student's race, color, sex, sexual orientation, religion, national origin, or disability. Students have equal access to admission to school, courses, extracurricular activities, employment opportunities and will not be excluded for reasons of marriage or pregnancy. The Principal of Norwood High School will be available to respond to requests for information about these laws.

Accreditation

Norwood High School is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Accreditation of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is addressed through accreditation.

Accreditation by the New England Association is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the school. Individuals may also contact the New England Association of Schools and Colleges.

Norwood High School Mission Statement

Norwood High School is a partnership of students, parents, staff and community. Our mission is to encourage students to become independent thinkers who value learning and pursue excellence in the four A's: Academics, Arts, Athletics and Activities. We provide a safe and supportive environment where students learn to respect themselves, their community and the diverse world in which we live.

Portrait of a Norwood Graduate

Collaborators

- Solve problems together
- Converse respectfully
- Demonstrate responsibility and accountability
- Understand self and consider other points of view

Creators

- Ask questions driven by curiosity
- Design innovative solutions and products
- Take risks and persevere throughout the process
- Think independently

Communicators

- Listen and speak effectively
- Write for diverse audiences and purposes
- Express through various mediums
- Ensure all voices and ideas are heard and expressed

Critical thinkers and problem solvers

- Gather and evaluate information
- Propose a solution
- Set goals and execute a plan
- Reflect and improve

Citizens

- Get involved constructively
- Contribute respectfully
- Engage responsibly
- Advocate for equity

General Information

Selection of Subjects - Student Programming

All members of the professional staff are available to help each student and their parents to select an appropriate course of studies. However, each student will be consulting primarily with their teachers and guidance counselor.

Students should give considerable thought before making the final selection of subjects. These are some guidelines to follow:

1. Plan your program according to your educational and vocational goals. Aim high but be guided by your achievement results from previous courses. Prerequisites for many advanced courses are provided in the course descriptions.
2. Carefully examine the course offerings which are available to you.
3. Discuss with your teachers the advisability of attempting or continuing an advanced or sequential subject.
4. Meet with your guidance counselor to select those subjects that you feel best meet your goals and ability. (Levels will be recommended by your teachers.)

In selecting your program, please remember the following points:

1. Students entering grade 9 and 10 must select 35 credits (required majors included) and the required Wellness course.
2. Students entering grades 11 and 12 must select 32.5 credits and the required Wellness course.
3. Four-year colleges often demand a minimum of at least two years of successful study in a world language. Most colleges strongly recommend more. In addition, Massachusetts state colleges and universities are now requiring 3 years of science, all of which must have a laboratory component. Massachusetts state colleges and universities also require 4 years in math, up to and including the completion of Algebra 2.
4. Every student is expected to complete the course they select. Changes in the program or withdrawing from any course is discouraged. The drop/add period ends at the close of school on the Friday of the first full week of school. Even during this time, adding or dropping a course is dependent on approval of a school counselor, and is dependent on course offerings and class sizes. Course changes during add/drop may not be made based on teacher preference. Course changes will not be made after this date.

Note: Parents are urged to call the Guidance Office to discuss a student's academic and career planning with the guidance counselor.

Subject Prerequisites

In general, any student may elect the first course of a sequence if they desire, and may elect subsequent courses in the sequence as long as they meet the standards set forth by that department. Prerequisites pertaining to specific courses will be reviewed by the guidance counselor at subject selection time. Prerequisite grades are contained in the

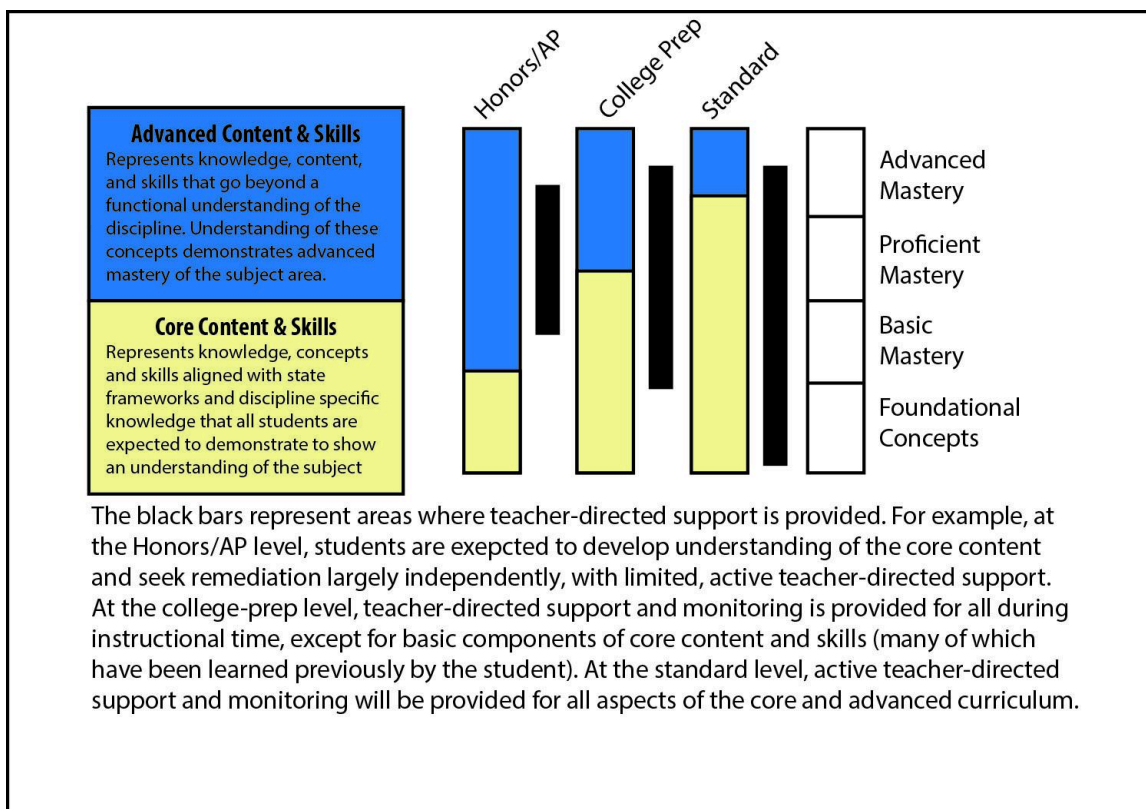
course descriptions of many courses. Guardians may request an override to a prerequisite in writing. Written requests for an override will be referred to the department head for approval and must be received by the end of term three.

Programs of Study

All major courses are designated by degree of difficulty:

- AP Advanced Placement
- H Honors
- C College Preparatory
- CP2 College Preparatory 2
- S Standard

Academic Level Descriptions



AP Exams and AP Summer Work

AP courses prepare students to take the AP exam in that subject area. All students enrolled in an AP course are expected and required to take the exam. The exam is funded in full by the Norwood Public Schools and there is no cost to the student. Additionally, many AP courses require summer work that not only prepare students for participation in an AP course, but that contribute to the student's academic grade. Students who register in the spring for an AP course the following year are making a commitment to follow

through with both of these elements, and should consider these aspects during the course selection process.

Graduation Requirements

All students must earn a total of 100 credits to be eligible for graduation. At the end of freshman year, a student must earn 25 credits or he/she will be considered academically deficient. Twenty-five (25) credits must be earned in the senior year regardless of the total number of previous credits earned. In addition, in order to qualify for a Norwood High School Diploma, students must earn a competency determination on the MCAS in English, mathematics, and science.

Furthermore, in order to qualify for a diploma a student in the class of 2024 must have passed the following subjects for the number of years indicated:

English	4 years	grades 9-12
Mathematics	3 years	grades 9-12
Science	3 years	grades 9-12
Social Studies	3 years	grades 9-11 (Modern World History, US History I, and US History II)
Physical Ed	4 years	grades 9-12
Health	4 years	grades 9-12

Beginning with the class of 2025, in order to qualify for a diploma, students must pass the following subjects for the number of years indicated:

English	4 years	grades 9-12
Mathematics	4 years	grades 9-12
Science	3 years	grades 9-12
Social Studies	3 years	grades 9-11 (Modern World History, US History I, and US History II)
Wellness (PE/Health)	4 years	grades 9-12
World Language	2 years	grades 9-12
Arts	1 year	grades 9-12

The above courses may be required in certain grades. Students who fail any of the required courses may be ineligible to participate in the graduation ceremony in their class, and may need to make additional arrangements to earn a diploma.

MassCore

What is MassCore?

MassCore is a state recommended, rigorous program of study that aligns high school coursework with college and workforce expectations. The recommended program of studies includes:

How many?	Which subjects?
4 years	English
4 years	Math
3 years	lab-based Science
3 years	History/Social Science
2 years	the same World Language
1 year	the Arts
5 additional “core” courses	career & technical education, or any other subject areas
As required by state law (4 courses)	Physical Education (MGL c. 71, s. 3)
Additional learning opportunities including	<ul style="list-style-type: none"> ● AP Classes ● Dual Enrollment ● Global Citizenship Program ● Seal of Biliteracy ● Service or work-based learning

MassCore is considered to be a critical component of a student’s overall high school experience and may also include employment, work-based or community-service learning, athletics, volunteer or extracurricular activities and additional learning opportunities that help prepare students for their future.

What is College and Career Ready?

Being college and career ready means that an individual has the knowledge and skills necessary for success in post-secondary education and economically viable career pathways in a 21st century economy. Academic preparation is a critical piece of those knowledge and skills.

What can we do?

START NOW

Sometimes knowing the options is all it takes. Success in ninth grade is critical and we ask students and families to avail themselves of all supports needed to pass all classes in grade nine to lay the foundation for a successful high school career.

AIM HIGH

Taking challenging courses in high school is the single best predictor of how well students will do in college. We encourage all students to take advanced placement, dual enrollment, and/or online courses.

LOOK BEYOND

Good grades and “book smarts” are not enough. Students need family and staff support to identify jobs, internships, and volunteer opportunities that interest them so they can plan for a career and gain authentic experiences. These opportunities will help build workplace and interpersonal skills while identifying and supporting their career path.

What can families do?

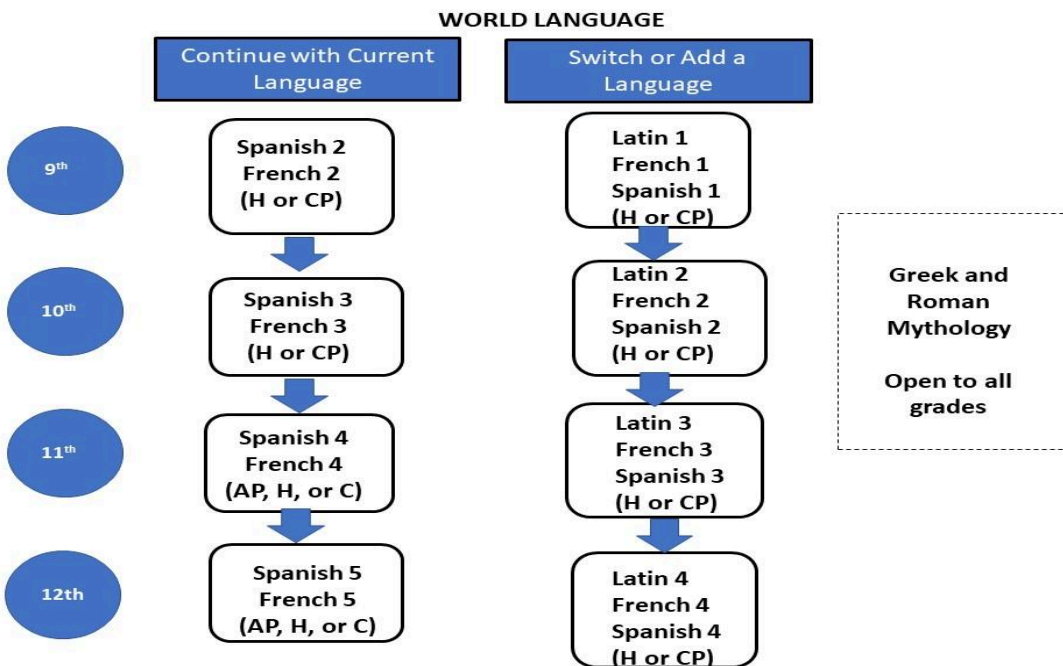
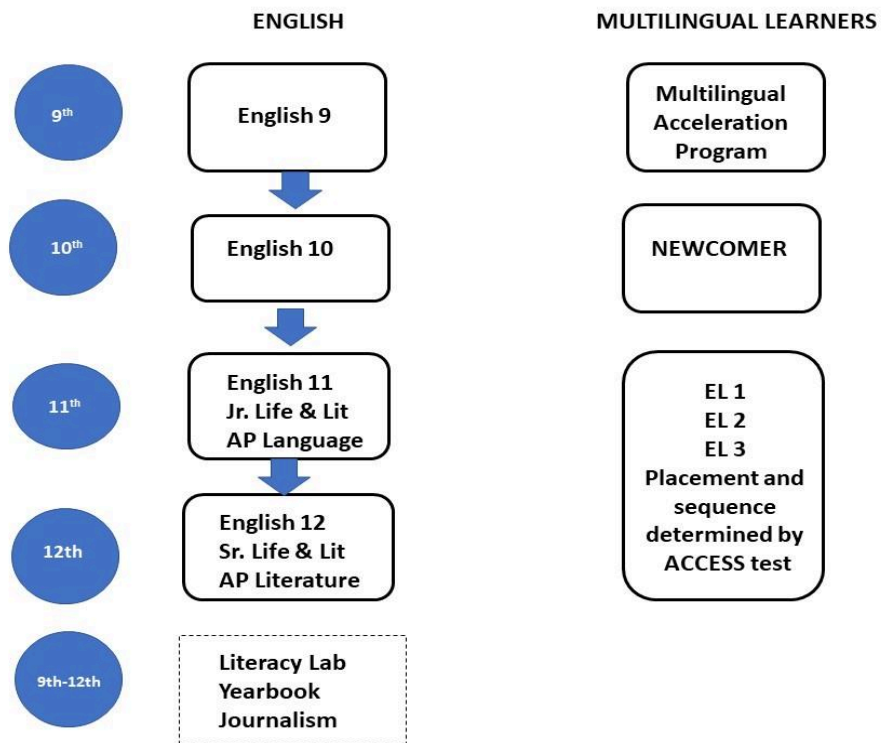
Encourage students to take challenging courses in high school, including honors, dual enrollment, and/or Advanced Placement (AP) classes.

Support students in doing homework and participating in school-sponsored activities.

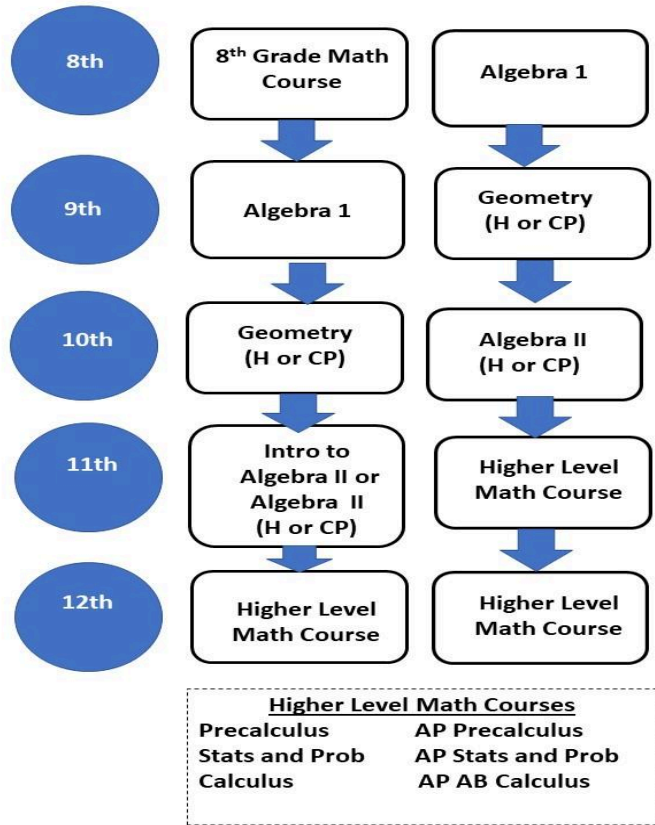
Make a point to communicate with teachers and counselors about student progress in school.

Partner with the student and the school to develop an education and career plan so that the student is prepared for what comes next after high school

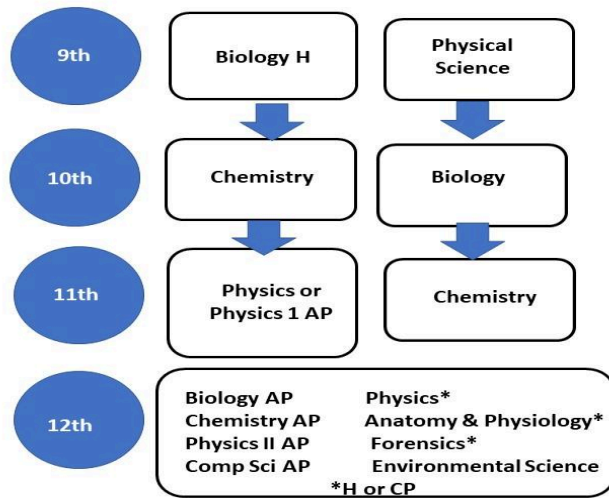
COURSE SELECTION FLOW CHARTS



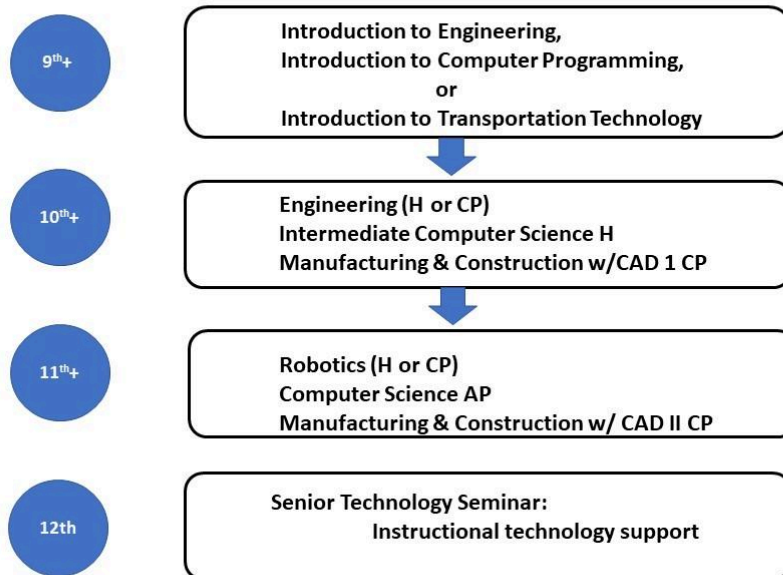
MATHEMATICS AND BUSINESS



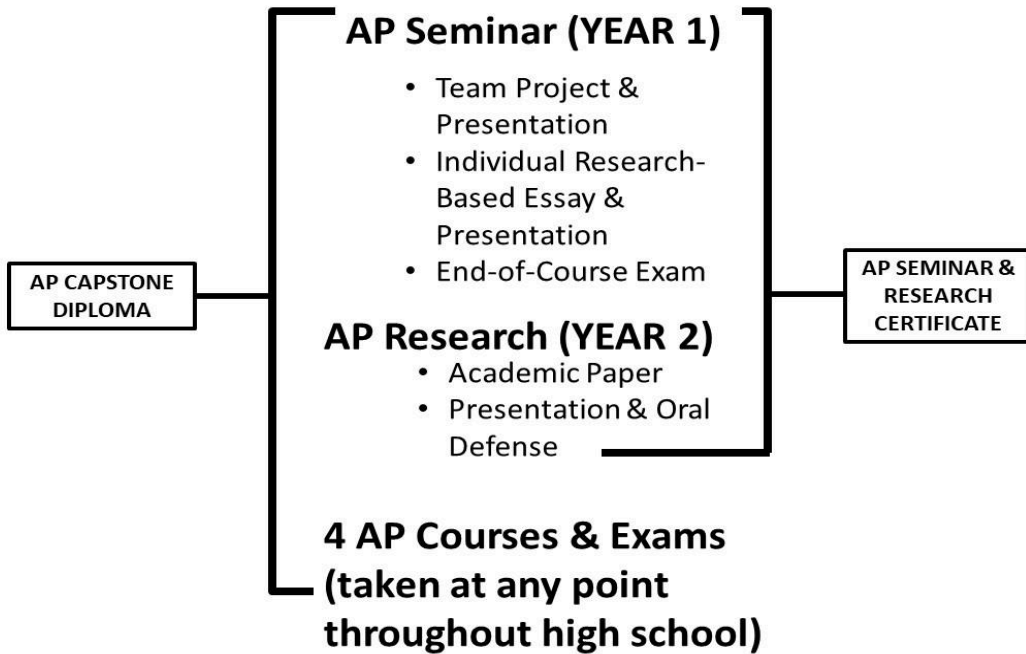
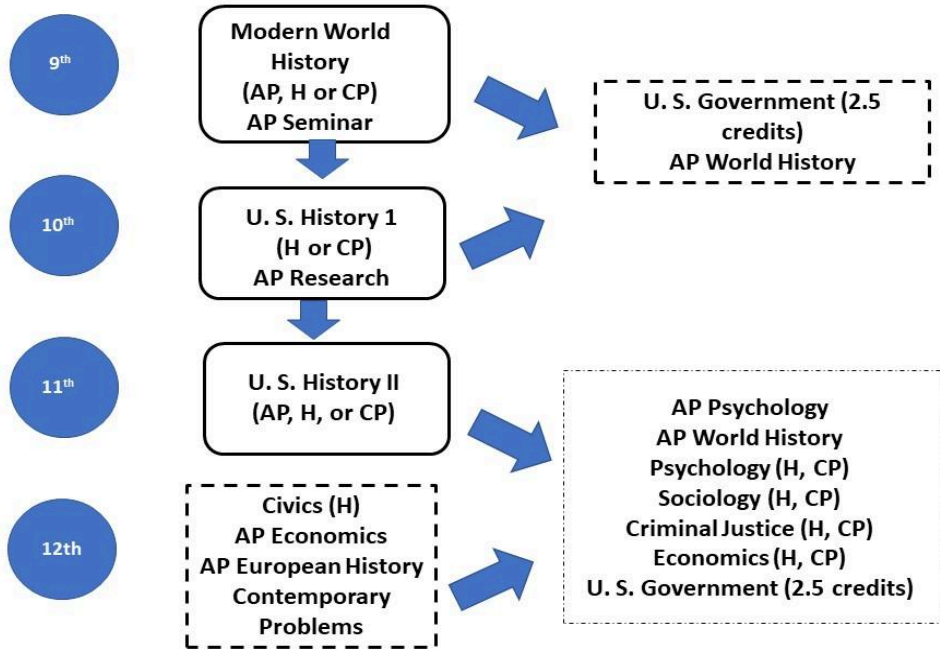
SCIENCE



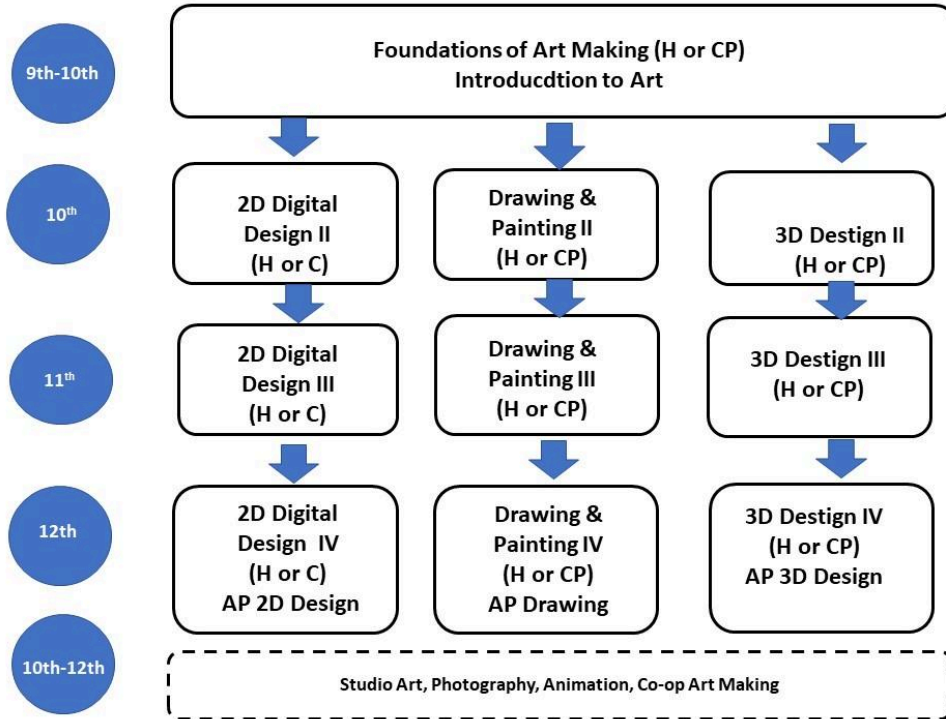
TECHNOLOGY EDUCATION / ENGINEERING



SOCIAL STUDIES



VISUAL ARTS



Specialized Programs

Innovation Pathways

Norwood Public Schools and Norwood High School recognize that in a traditional college-preparatory high school, we have limited opportunities for students to connect to potential careers throughout high school. While general opportunities exist for career counseling, exposure to some careers, and general integration of career preparation in the classroom, we are limited in providing our students focused counseling, exposure, and training that aligns with industry needs in our community and region. Additionally, we are limited in offering students technical skills that may prepare them for in-demand job opportunities that require industry recognized credentials, certifications, associate degrees, or specialized apprenticeship programs.

The Norwood Public Schools Innovation Pathway will provide students in grades 9-12 with a career pathway in healthcare, a high-demand industry sector in our region. Our lead partner, MassHire Metro South/West, has been a transformational influence on our planning work to date and is working with us to plan, implement, and build our innovation pathway. Due to job growth in our area, student interest, and program availability at Norwood High School, we quickly identified Healthcare and Information as the two possible pathways that would most benefit the students of Norwood High School. MassHire has also partnered with our district to partially fund a part-time career counselor through the Connecting Activities program. The career counselor offers our students focused career counseling and exposure to high demand jobs in our area, and serves as a key partner in our planning for and implementation of a healthcare innovation pathway.

The Healthcare Innovation Pathway (HIP) at Norwood High School (NHS) will establish a new, first-of-its-kind, career preparation pathway. In the short term, our goal will be to admit a cohort of approximately 25 incoming 9th grade students that represent our demographic each year of the program's existence. While the program is new, it will build upon the many current relationships, programs, and structures that exist at NHS. Building on our established relationships with MassHire and School to Careers, the HIP will allow us to provide structured job shadowing opportunities, field trips, and career counseling to NHS students. Expanding the role of our career counselor into an Innovation Pathway Program coordinator will allow for these structures to thrive. Growing partnerships with industry organizations such as Norwood Hospital will allow us to offer our students top notch preparation in the healthcare field.

The vision for a healthcare innovation pathway at Norwood High School is to provide a more equitable educational experience for all students through focused career counseling, exposure to high demand jobs in our region in the healthcare field, and to immerse our students in experiential learning that will enhance the educational experience, particularly for students who may not have equitable access to these offerings currently.

HEALTHCARE INNOVATION PATHWAY

9TH GRADE:

- ALGEBRA 1
- PHYSICAL SCIENCE
- WORLD HISTORY
- WORLD LANGUAGE
- PATHWAYS MAJOR
- HEALTH/PE

10TH GRADE:

- GEOMETRY
- BIOLOGY
- US HISTORY 1
- WORLD LANGUAGE YEAR 2
- PATHWAYS MAJOR YEAR 2
- HEALTH/PE

11TH GRADE:

- ALGEBRA 2
- CHEMISTRY
- US HISTORY 2
- WORLD LANGUAGE OR OTHER ELECTIVE
- PATHWAYS MAJOR YEAR 3
- HEALTH/PE

12TH GRADE:

- SENIOR COLLEGE MATH OR PRE-CALC OR STATISTICS
- PHYSICS OR OTHER ELECTIVE
- HISTORY ELECTIVE
- WORLD LANGUAGE OR OTHER ELECTIVE
- PATHWAYS MAJOR YEAR 4
- HEALTH/PE



OPTIONAL SUMMER SESSION RISING JUNIOR

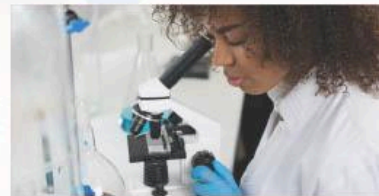
- CAPSTONE 1 (50 HOURS)*
- INTERNSHIP 1 (50 HOURS)*
- HYBRID 1 (25 HOURS CAPSTONE 25 HOURS INTERNSHIP)
- COLLEGE LEVEL COURSE BYU OR DUAL ENROLLMENT

*INTERNSHIP OR CAPSTONE 100 HOUR REQUIREMENT CAN BE COMPLETE IN ONE YEAR.

OPTIONAL SUMMER SESSION RISING SENIOR

- CAPSTONE 1 (50 HOURS)*
- INTERNSHIP 1 (50 HOURS)*
- HYBRID 1 (25 HOURS CAPSTONE 25 HOURS INTERNSHIP)
- COLLEGE LEVEL COURSE BYU

*INTERNSHIP OR CAPSTONE 100 HOUR REQUIREMENT CAN BE COMPLETE IN ONE YEAR.



GET STARTED TODAY!

FOR MORE INFORMATION CONTACT: MELAURIE JEAN-NOEL, CAREER EDUCATION SPECIALIST
 E: MJEANNOEL@NORWOOD.K12.MA.US | P: 781-352-3854

Additional Career Pathways

Students in the class of 2025 and beyond will be able to enter additional pathways in Business and Finance or the Information Sector and choose from coursework associated with these industry sectors. Students in the class of 2028 and beyond are eligible to enter

the Clean and Renewable Energy career pathway. Interested students should speak to their counselor during course registration.

Global Citizenship

The Norwood High School Global Citizenship Program (GCP) promotes global competence by fostering students' interest in the larger world beyond the confines of Massachusetts and the United States. Through interdisciplinary academic study, community service, and international travel, participants increase their global awareness, heighten their appreciation of diversity, and enlarge their capacity to work and contribute in an increasingly interconnected world. We have two options for students. One is a club and one is a certificate program. The club is open to all students, meets monthly and engages in global studies. The certificate program has a variety of requirements to complete like academic coursework, travel abroad or an equivalency, a global exploration project and community service. Students who complete this program, graduate with a Certificate of Global Citizenship and it is recognized on their transcript. Since 2015, 55 students have earned this distinction.

Seal of Biliteracy

The Seal of Biliteracy is an award given to graduating seniors who have attained complete proficiency in English and a partner language. The awarded student will have fluency in all four domains of language (reading, writing, speaking and listening, when all exist) of both languages. This program is designed to both motivate and recognize students who have pursued and attained bilingualism during their academic career at NHS. Junior and Senior students attending NHS are eligible to apply for this award. Students will need to demonstrate proficiency in English and in a partner language on district-selected standardized tests like the MCAS or the AAPPL test that measures proficiency in a variety of languages.

Community Service

Purpose:

Norwood High School encourages students to engage in their school and town community in a capacity that allows them to give back in a meaningful way. One way for our students to demonstrate such great citizenship is through community service. Our collective goal as a school is to encourage, support, and acknowledge the work being done by our students to enhance the world around them.

Overview and Credits/Certificates Awarded:

Students who perform 30+ hours of documented community service and complete the subsequent forms (see attached), will be reviewed for general credit attainment based on the following scale:

30 hours = 1 credit

60 hours = 2 credits

(Maximum of 2 credits toward general credit requirements)

- Credits will be reported on a student's transcript under the description of "Community Service Program", with an accompanying explanation on our NHS

School Profile.

- Students cannot include hours from a place of employment
- Students who perform 200+ hours (average of 50 hours per year) of community service over their high school career will also receive a special certificate and recognition at Class Day and/or during their graduation ceremony.

Online Learning

Norwood High School offers, as budget allows, online course opportunities through approved outside providers. These courses are approved by an Academic Credentials Committee and are initially intended to provide credit recovery opportunities for identified students and also enrichment opportunities for qualified candidates.

Dual Enrollment

Eligible juniors and seniors may take undergraduate online courses through Massasoit Community College, Mass Bay Community College, and/or Quincy College. Dual Enrollment Program. Students who successfully complete a course may earn both high school and college credit. Semester courses taken at the college level will be considered to have the same credit value as a full-year (or 5 credit) course offered at the high school. The course will not be factored into a student's GPA. These courses will not replace one of the 6 major courses taken at Norwood High School. This would be an additional course offering. These courses come with an additional cost of \$150 (on average). Interested students should see their guidance counselor. Dual enrollment opportunities with other institutions may be possible with guidance counselor approval.

Virtual High School (VHS) Pilot Program

Eligible juniors and seniors who are interested in pursuing Advanced Placement Environmental Science or Advanced Placement Computer Science Principles and have completed any necessary prerequisite courses as outlined by Norwood High School and VHS Learning (VHS) may take online courses through a pilot program with VHS-<https://vhslearning.org> (VHS). Students who successfully complete a course may earn Norwood High School credit. Full year courses through VHS will be considered to have the same credit value (5 credits) course offered at the high school. VHS Learning courses will be placed on NHS's transcript; however, the course will not be factored into a student's GPA. These courses will not replace one of the 6 major courses taken at Norwood High School. This would be an additional course offering. Interested students should see their School Counselor. VHS courses will need to be approved by both the Science Department Chair and the School Counselor approval.

Academic Standing

All students must earn a minimum of twenty-five (25) credits a year. To graduate, students must accumulate one-hundred (100) credits in grades nine through twelve, twenty-five (25) of which must be earned in grade 12, and meet all graduation requirements in each subject area. Any student not fulfilling the above requirements will be considered academically deficient and may be subject to retention. **All graduation**

requirements must be met in order to participate in the graduation ceremony prior to the end of the school year.

Latin Honors System

Students may earn a special distinction at the graduation ceremony for having reached specific G.P.A. criteria. This shift in academic recognition is aimed at honoring students based on consistently applied standards rather than relative measures of performance and peer comparisons. Student G.P.A will be calculated following the 3rd term of senior year. The honors are as follows:

Summa Cum Laude (“with highest honor”) -- G.P.A. of 4.6+

Magna Cum Laude (“with great honor”) -- G.P.A. of 4.4 to 4.59

Cum Laude (“with honor”) -- GPA of 4.0 to 4.39

Summer School

The summer school curriculum consists of remedial instruction for review, for the strengthening of basic skills and for the makeup of deficient credit. Enrichment courses may also be offered. Classes are scheduled during the summer months. Ten credits of work may be earned in the Summer School Program in courses in which credit was lost during the regular school year. To be eligible to attend summer school, a student must have a grade of F+ for his/her final grade (this equates numerically to 60-64%) and must have been present in class for a minimum of 96 days (75% attendance rate.). Eligible students must receive the approval of their guidance counselors and teachers. The subjects actually offered in the summer school program depend upon student registration.

Physically Impaired Students

Students with physical special needs who may need information regarding the accessibility of programs may contact the Guidance or Nurse’s office at Norwood Senior High School.

School Counseling Services

The goal of the Norwood School Counseling Department is to support the student’s efforts at self-understanding, responsible decision-making and the development of personal, educational and career goals. The school counselor helps the student to achieve their maximum potential and also serves as a liaison and support service for students, parents/guardians, and teachers. School counselors help students to apply academic achievement strategies, manage their emotions and apply interpersonal skills, and plan for all post-secondary options. These services may include, but are not limited to: individual student academic planning and goal setting, school counseling classroom lessons, short-term individual counseling, referrals for long term support, collaboration with families/teachers/administrators/community resources for student success, and advocacy for students at educational planning meetings.

In addition to the services provided by the high school counselors, NHS counseling services include three adjustment counselors, a school social worker, a career counselor, a speech and language therapist, and a school psychologist available to help meet the

individual needs of each student. Grade nine students are assigned alphabetically to their school counselor and they will continue to work together until graduation. Throughout the four years of high school, school counselors will deliver individual and group counseling services to meet the needs and goals of each student. During the course selection process and throughout high school, counselors will help students:

- a) Assess their interests, strengths, aptitudes, and encourage students to explore personal career interests. Counselors will work with students to administer a career interest inventory and utilize the results from that inventory to inform the course section and goal setting.
- b) Plan for their life after graduation from Norwood High School. Through conversations and collaboration with teachers and parents/guardians, school counselors will help students identify specific courses that will help them to prepare for admission to college and/or for career readiness.
- c) Develop their potential in as many areas as possible. Our curriculum affords students the opportunity to explore a variety of areas and to expand horizons and interests.

Senior Seminar: During their senior year, every student will be assigned to a Senior Seminar led by a school counselor. During this seminar, students will work with the school counselor to explore post-secondary options that include but are not limited to the two- and four-year college application process which includes: the college search, development of a resume, drafting, writing, and editing the college application essay, interview skills, and application completion. Students will also be able to discuss work, certificate, military, and gap year opportunities.

COURSES

Resource Room

The curriculum for the students who participate in the Resource Room program consists of the core academic subjects offered at Norwood High School. Students who take classes in the Resource Room program have Individualized Educational Plans that require this learning model. Resource room placements are determined by the IEP Team. Curriculum in these courses are modified for key concepts and skills. Resource room classes use alternative textbooks and course materials to meet students' reading levels and overall academic ability.

RESOURCE ROOM MATHEMATICS

EXPLORATIONS IN ALGEBRA I (208-01S)

5 Credits

Explorations in Algebra I is a course designed for grade 9 special education students who have math instruction as a stated service as part of their Individualized Education Program. This course models the curriculum of the regular education Algebra I class. Topics covered include integers, mathematical properties, exponents, data, statistics, and probability, polynomials, slope, and solving and graphing linear equations and

inequalities. Key concepts in each of these areas are covered in less depth than in the regular education Algebra I class. An alternate text is used.

EXPLORATIONS IN ALGEBRA/GEOMETRY I (214-01S)

5 Credits

Explorations in Geometry I is a course designed for grade 10 special education students who have math instruction as a stated service as part of their Individualized Education Program. This course models the curriculum of the regular education Geometry class. Topics include: lines, planes, angles, two-dimensional shapes, and three dimensional objects. Students use calculators to compute lengths, areas, and volumes. Key concepts in each of these areas are covered in less depth than in the regular education Geometry class. Students also receive preparatory instruction for the Grade 10 MCAS test. Emphasis on formal proofs is not part of the curriculum. An alternate text is used.

EXPLORATIONS IN ALGEBRA/GEOMETRY II(209-01S)

5 Credits

Explorations in Algebra/Geometry II is a course designed for grade 11 or 12 special education students who have math instruction as a stated service as part of their Individualized Education Program. This course emphasizes and reviews the concepts taught in both Explorations in Algebra I and Explorations in Geometry I. Emphasis is also placed on MCAS type questions and strategies. Further study of both algebra and geometry is also explored.

Prerequisite: passed both Explorations in Algebra I and Explorations in Geometry I

RESOURCE ROOM SCIENCE

RESOURCE BIOLOGY (3950S)

5 Credits

Resource Biology is designed for Special Education Students who have science instruction in the Resource Room as a stated service on their Individual Educational Programs. This course models the regular education biology class. The studied topics include: cells, tissue, organs, species, and populations. These topics are directly correlated with the Massachusetts Biology Standards.

RESOURCE ANATOMY (3950)

5 Credits

The Anatomy 11/12 class was created for students who need a 3rd year science class for graduation and are not able to meet the standards in the general education class (Anatomy, Forensics, Chemistry). The class includes a modified curriculum, which includes the major human body systems; Muscular, Skeletal, Digestive, Circulatory, etc. The class is only for students on IEPs of course and focuses on hands-on lessons/lab activities to guide students learning.

RESOURCE ROOM ENGLISH

RESOURCE ENGLISH GRADES 9-10 (102-01S))

5 Credits

Resource English for grades nine and ten is a class designed for Special Education Students who have English instruction in the Resource Room as a stated service on their Individual Educational Programs. This course models the regular education English classes and complies with the Massachusetts Standards through the study of literature, grammar, and composition. The various genres of literature that are studied include novels, poetry, drama, and myths. Readings include *Of Mice and Men*, *Old Man and the Sea*, *The Cay*, and Shakespeare. Grammar is studied for the express purpose of applying what is learned to student writing. In composition, students write five-paragraph essays and open-response statements which are refined by organizing ideas in a clear, concise manner. Different types of graphic organizers are used to assist students with organizing and developing their writing. One summer reading selection is required. Assessment of all grade nine and ten students include the English department's grade wide mid-term, various class assignments, and a final exam. In addition, grade ten students receive preparatory instruction for the MCAS Test.

RESOURCE ENGLISH GRADES 11-12 (103-01S)

5 Credits

Grade eleven and twelve Resource Room English is a class designed for Special Education Students who have English instruction in the Resource Room as a stated service on their Individual Educational Programs. This course models the regular English classes and complies with the Massachusetts Standards through the study of literature and developing an increasingly mature style in written language. Readings include novels, newspapers, and magazines. Students are required to read one summer reading selection.

PACS/Life Skills

The PACS/Life Skills program at Norwood High School is intended to meet the needs of students whose performance levels and needs cannot be met within the present resource room setting. Individual IEP goals and the Mass. Curriculum Frameworks are addressed. The students receive small group instruction that is individualized and directed toward the development of functional academic skills. Academic areas include English Language Arts, Math, Social Studies, Science, and Life Skills, which include social/behavioral, health, independent living, and pre-vocational skills.

Students attend a variety of elective classes in the mainstream with the assistance of a teacher's aide. Materials are designed to support the individual learning style of each student. Direct instruction, hands-on activities, project-based assignments, and games are utilized to teach and reinforce skills.

Per student's Individualized Education Plan (IEP), related service staff provides direct service to students and may also provide consultation to insure that therapeutic strategies are interwoven and carried over into instructional activities and routines throughout the day.

PACS/LIFE SKILLS SCIENCE

Course Description: This course will address individual IEP goals in relation to the Massachusetts Curriculum Frameworks.

Class Format: Lessons and activities will include individual and small group direct instruction, cooperative groups, and hands-on activities.

Student Expectations: Students will be responsible for attending class, following classroom rules, and completing assigned tasks. Each student will be expected to seek and accept teacher help as needed according to ability.

Materials: Various adapted/modified science curriculum (i.e. PCI, Globe Fearon, Steck- Vaughn, EdHelper, and others). Various teacher-created lessons, activities, and games to reinforce concepts.

PACS/LIFE SKILLS SOCIAL STUDIES

Course Description: This will address individual IEP goals in relation to the Massachusetts Curriculum Frameworks.

Class Format: Lessons and activities will include individual and small group direct instruction, cooperative groups, and hands-on activities.

Student Expectations: Students will be responsible for attending class, following classroom rules and completing assigned tasks. Each student will be expected to seek and accept teacher help as needed according to ability.

Materials: Various adapted/modified social studies curriculum (i.e. PCI, Globe Fearon, Steck-Vaughn, EdHelper, and others). Various teacher-created lessons, activities, and games to reinforce concepts.

PACS/LIFE SKILLS LIFE SKILLS

Course Description: This course will address individual IEP goals in relation to the Massachusetts Curriculum Frameworks. It will address independent living skills such as community skills, health and safety, money math (to include banking, budgeting, shopping), vocational skills (what does working entail, where to find work, filling out applications, etc.), meal planning, and cooking to include measurement. It will also address various social skills. This life skill training enables students to function as independently and successfully as possible in adulthood.

Class Format: Lessons and activities will take place in the school building, the classroom, the kitchen, or in the community. Direct instruction, independent work, cooperative group work, hands-on activities, and role-playing will be part of instruction.

Student Expectations: Students will be responsible for attending class, behaving appropriately both inside and outside of the classroom, participating in role-play, and completing assigned tasks. Each student will be expected to seek and accept teacher help as needed according to ability.

Materials: Various adapted/modified commercial life skill curriculum (i.e. from PCI, Globe Fearon, Super Duper Publications, EdHelper, and others). Various teacher-created lessons, activities, and games to reinforce concepts.

PACS/LIFE SKILLS MATHEMATICS

Course Description: This course will address individual IEP math goals in relation to the Massachusetts Curriculum Frameworks. Emphasis will be made on applying math

skills to real life situations.

Class Format: Lessons and activities will include individual and small group direct instruction, cooperative groups, and hands-on activities.

Student Expectations: Students will be responsible for attending class, following classroom rules, and completing assigned tasks. Each student will be expected to seek and accept teacher help as needed according to ability.

Materials: Touch Math, Saxon Math, sources such as PCI, AGS, EdHelper, and others. Various adapted/modified math curriculum. Various teacher-created lessons, activities, and games to reinforce concepts.

PACS/LIFE SKILLS ENGLISH

Course Description: This course will address individual IEP English language arts goals in relation to the Massachusetts Curriculum Frameworks. Emphasis will be made on applying reading/writing to real life situations.

Class Format: Lessons and activities will include individual and small group direct instruction, cooperative groups, and hands-on activities.

Student Expectations: Students will be responsible for attending class, following classroom rules, and completing assigned tasks. Each student will be expected to seek and accept teacher help as needed according to ability.

Materials: Various adapted/modified ELA curriculum (i.e. PCI, Globe Fearon, Steck-Vaughn, EdHelper, and others). Various teacher-created lessons, activities, and games to reinforce concepts.

PACS/LIFE SKILLS READING

Course Description: This course will address individual IEP reading goals in relation to the Massachusetts Curriculum Frameworks. Emphasis will be made on reading literature and on reading/vocabulary which occur in daily life (i.e. directions, schedules, safety signs).

Class Format: Students will listen to teacher-directed or book on tape reading as well as reading silently and out loud. Lessons and activities will include individual and small group direct instruction, cooperative groups, and hands-on activities.

Student Expectations: Students will be responsible for attending class, following classroom rules, and completing assigned tasks. Each student will be expected to seek and accept teacher help as needed according to ability.

Materials: Various curriculums (i.e. Edmark reading/functional word program, literature from Horizons, Steck-Vaughn, EdHelper, Reading A-Z, and others). Various teacher-created lessons, activities, and games to reinforce concepts.

CULINARY ARTS

This course will allow students to explore vocational opportunities which are a key component of the Transition Planning Form for Students with Disabilities. Students will gain valuable independence to promote a healthier future in which they can further become functioning members of society, either in the workforce or in their personal lives.

ENGLISH LANGUAGE ARTS DEPARTMENT

The goal of the English curriculum is to strengthen communication skills and to encourage an appreciation of literature. Thus, each student must achieve proficiency in reading, writing, speaking, listening and must employ higher order critical-thinking skills such as analysis, synthesis, and evaluation. Students will write effectively for a variety of purposes and read with understanding from a variety of texts.

In order to provide opportunities for success to a wide range of students with individual needs and learning styles, the English Department offers courses at three levels (Honors, College Preparatory, College Preparatory 2) in grades 9 and 10 and four levels in grades 11 and 12 (Advanced Placement, Honors, College Preparatory).

Honors and Advanced Placement courses are for students who flourish in an especially challenging academic environment, who are self-motivated as well as very organized, and who are comfortable working with advanced materials. Although the benchmarks for learning at each grade are consistent, the pace and instructional approach differ at each level. For example: CP 2 offers a small learning environment where students can access more individualized instruction in the ELA skills needed to succeed on MCAS and to continue in college preparatory classes in grades 11 and 12. A Standard level class is offered in grade 12 for those students who are preparing to continue their education at a technical, business, or two-year college; enter the armed services; or join the workforce.

Literacy Lab (051C)

2.5 Credits

This full-year elective, open to all students, meets twice a week and is for students interested in improving or expanding their reading and writing skills in a smaller group setting. All work is designed to be completed during class. Interacting with high-interest fiction and non-fiction texts, reading and writing is enjoyable, relatable, and relevant in short, manageable chunks. Students demonstrate comprehension and analytical skills through targeted responses that focus on idea development and clarity in a variety of styles: narrative, expository, and argumentative. Students develop both critical and creative writing skills by analyzing and emulating the literary techniques and styles of a range of authors and genres. Students bring the texts to life by making connections to themselves and the world, ultimately understanding the power of literacy and its critical role in all subject areas and in everyday life.

FRESHMAN HONORS ENGLISH (011H)

5 Credits

This course is designed for highly-motivated freshmen who have demonstrated advanced performance in English throughout their middle school years. The course includes a complete study of grammar as it applies to writing and effective communication as well as development of more sophisticated writing techniques. Formal writing assignments will focus on mastery of the 5-paragraph essay utilizing the writing process. Various

genres of literature, including novels, short stories, myths, poetry, drama, and nonfiction, are studied in depth. During the school year students will read **at least 5** major works; for example: *Othello*, *Great Expectations*, *The Odyssey*, *To Kill a Mockingbird*, *A Raisin in the Sun*, *Animal Farm*, *The Pearl*, and *The House on Mango Street*. Honors students are required to complete independent projects and read one summer reading selection. Assessment of all grade 9 students includes the summer assignment, department-wide midyear exam, and the grade 9 final exam.

FRESHMAN COLLEGE-PREPARATORY ENGLISH (012C)

5 credits

This course is designed for freshmen who have demonstrated proficient performance in English throughout their middle school years. The course includes a complete study of grammar as it applies to writing and effective communication as well as development of more sophisticated writing techniques. Formal writing assignments will focus on mastery of the 5-paragraph essay utilizing the writing process. Various genres of literature, including novels, short stories, myths, poetry, drama, and nonfiction, are studied in depth. During the school year students will read **at least 4** major works; for example: *Othello*, *To Kill a Mockingbird*, *A Raisin in the Sun*, *The Pearl*, and *The House on Mango Street*. Students are required to read one summer reading selection. Assessment of all grade 9 students includes the summer assignment, department-wide midyear exam, and the grade 9 final exam.

FRESHMAN COLLEGE-PREPARATORY ENGLISH 2 (014C)

5 credits

This course is designed for freshmen who thrive in a smaller learning community. The course content includes a concentrated study of grammar as it applies to writing and effective communication. Compositional instruction reinforces the five-paragraph essay and enhances skills such as topic development, organization, revision, and proofreading. With smaller class size, students will gain confidence in the classroom and will be able to apply skills learned to other facets of high school. Literature study includes novels, short stories, myths, poetry, drama, and nonfiction. Readings include *The House on Mango Street*, *A Raisin in the Sun*, *Othello*, *To Kill a Mockingbird*, articles about contemporary issues, and readings from *The Language of Literature*, the freshman anthology. Students are required to read one summer reading selection. Assessment of all grade 9 students includes the summer assignment, the department-wide midyear exam, and the grade 9 final exam.

SOPHOMORE HONORS ENGLISH (021H)

5 credits

This honors course is designed for highly-motivated sophomores who have demonstrated advanced performance in English. Compositional instruction focuses on development of stylistic maturity and an effective command of sentence structure, diction, and organization. Various genres of literature are studied with emphasis on critical reading and interpretation. Readings include *A Tale of Two Cities*, *Julius Caesar* or *The Tempest*, *1984*, *A Separate Peace*, *Night*, and *The Glass Menagerie*. Emphasis is also placed on preparation for the MCAS exam in March. Honors students are required to complete

independent projects and read one summer reading selection. Assessment of all grade 10 students includes the summer assignment, department-wide midyear exam, the MCAS exam, and the grade 10 final exam.

Prerequisite: passed Freshman English

SOPHOMORE COLLEGE-PREPARATORY ENGLISH (022C)

5 credits

This course is designed for college-bound sophomores interested in attending a four-year college immediately after graduation. Compositional instruction stresses competence in the skills and strategies of the writing process and development of more sophisticated writing techniques. Various genres of literature, including novels, short stories, poetry, drama, and essays, are studied in depth. Readings include *A Tale of Two Cities*, *Julius Caesar* or *The Tempest*, *The Glass Menagerie*, *1984*, *A Separate Peace*, and *Night*. Emphasis is also placed on preparation for the MCAS exam in March. Students are required to read one summer reading selection. Assessment of all grade 10 students includes the summer assignment, department-wide midyear exam, the MCAS exam, and the grade 10 final exam.

Prerequisite: passed Freshman English

SOPHOMORE COLLEGE-PREPARATORY ENGLISH 2 (024C)

5 Credits

This course is designed for students who thrive in a smaller learning community. With more access to individualized attention, they benefit from extra help with ELA skills and may go on to college or pursue a career. In literature, such genres as novels, short stories, poetry, drama, and nonfiction are studied. Readings include: *Night*, *Of Mice and Men*, *The Glass Menagerie*, *Julius Caesar* or *The Tempest*, *A Tale of Two Cities*, and readings from *The Language of Literature*, the sophomore anthology. Grammar is studied for the express purpose of applying what is learned to student writing. In composition, the open-response and the 5-paragraph essay are refined by improving such skills as topic development, organization, and presentation. Emphasis is also placed on preparation for the MCAS exam in March. One summer reading selection is required. Assessment of all grade 10 students includes the summer assignment, department-wide midyear exam, the MCAS exam, and the grade 10 final exam.

Prerequisite: passed Freshman English

Junior Advanced Placement English: Language and Composition (030AP)

5 credits

This course is for highly-skilled and motivated students of English and culminates with students taking the AP English Language exam in early May. Students will examine and analyze effective rhetoric and argument, and implement those forms in their own writing. Students will also learn to evaluate sources, synthesize information, and write about a variety of topics and issues. Students should be comfortable collaborating, supporting their conclusions with textual evidence, participating in discussion to raise pertinent

questions, and making connections to their lives and issues in society from multiple perspectives. Class work is predicated on independent, insightful reading of challenging, thought-provoking works and issues. Most of the reading will be non-fiction and consist of speeches, articles, essays, and longer works. Students will also consider visual sources and representations of data. Major literary works, including *Macbeth*, are chosen from the Advanced Placement Curriculum Guide, for example: Martin Luther King Jr's "Letter from a Birmingham Jail," Lincoln's "Second Inaugural Address," and essays by writers such as: Joan Didion, Malcolm Gladwell, Barbara Ehrenreich, Jonathan Swift, Alice Walker, and Chimamanda Ngozi Adichie. Non-fiction full length texts may include: *Into the Wild*, *Narrative of the Life of Frederick Douglass*, or other issue or memoir-based texts. Grades will be based on assessment of both oral and written work. In addition to the major works studied in the school year, during the summer students read and write about designated works. Assessment of all grade 11 students includes the department-wide midyear exam and the grade 11 final exam that considers the essential question of passion vs. responsibility.

Prerequisite: passed Sophomore English

JUNIOR HONORS ENGLISH (031H)

5 credits

This course is designed for college-bound juniors whose competence in English has been firmly established and/or for those who despite exceptional ability choose commitment to other disciplines over AP English. This rigorous curriculum requires students to read critically and widely, to demonstrate competency in the skills and strategies of the writing process, to speak effectively, and to refine a mature writing style. Emphasis is placed on the development of an American national literature, as well as a Shakespearean play. Students read a minimum of 5 of works; for example: *The Adventures of Huckleberry Finn*, *The Catcher in the Rye*, *Cold Sassy Tree*, *The Crucible*, *A Farewell to Arms*, *The Great Gatsby*, *Into the Wild*, *Macbeth*, *Native Son*, *Ordinary People*, *Perks of Being a Wallflower*, *The Scarlet Letter*, and *The Things They Carried*. The essential question requires students to examine literature and critique the effects of when a private passion conflicts with a responsibility. A personal/college essay, synthesis writing, poetry analysis, and grammar practice are required. Honors students are required to complete independent projects and read one summer reading selection. Assessment of all grade 11 students includes common grammar assessments, summer reading, the department-wide midyear exam, and the grade 11 final exam.

Prerequisite: passed Sophomore English

JUNIOR COLLEGE-PREPARATORY ENGLISH (032C)

5 credits

This course is designed for college-bound juniors. Students are expected to demonstrate competence in the skills and strategies of reading. Students must implement and refine the skills and strategies of the writing process and develop an increasingly mature style in a wide variety of assignments, both written and oral. A variety of American literature including *The Scarlet Letter*/*The Adventures of Huckleberry Finn* and *The Great Gatsby*

as well as *Macbeth* is read and analyzed. Other literature may be chosen from the following: *The Catcher in the Rye*, *Cold Sassy Tree*, *The Crucible*, *Death of a Salesman*, *A Farewell to Arms*, *Into the Wild*, *Native Son*, *Perks of Being a Wallflower*, and *The Things They Carried*. The essential question requires students to examine literature and critique the effects of when a private passion conflicts with a responsibility. A personal/college essay, synthesis writing, poetry analysis, and grammar practice are required. Assessment of all grade 11 students includes common grammar assessment, the department-wide midyear exam, and the grade 11 final exam.

Prerequisite: passed Sophomore English

LIFE AND LITERATURE (037 CP2 or 045 CP2)

5 Credits

This two-year course is designed for students who may not want to attend a public four-year college or university and instead may want to enroll in a two-year community college, a vocational program, the military, or enter the workforce, but still satisfy Norwood High School's English Language Arts requirement. The course is built around real-world skills and applications through the study of relevant literature and film and through a thoughtful exploration of real-world themes. The course work is focused on practical aspects of writing, critical thinking, and discussion, and pursues concepts of individuality, relationships, human nature and our interaction with the environment, social justice, and work and society. Grade 11 readings include *Into the Wild*, *The Perks of Being a Wallflower*, *Macbeth*, and *Lord of the Flies*. Grade 12 readings include relevant, nonfiction texts and op-eds from *The Boston Globe*, *The New York Times*, and other major news publications, various short stories, *Hamlet*, *Serial Season 1 Podcast*, and *The Things They Carried*. Assessment of all grade eleven and twelve students includes a summer assignment, a mid-year, and a final.

Prerequisite: passed Sophomore English

SENIOR ADVANCED PLACEMENT ENGLISH: LITERATURE AND COMPOSITION (040AP)

5 credits

In this program for highly-skilled and motivated seniors, there are two objectives: To improve reading, writing, thinking, and communication skills and To attempt to answer the essential question - What does it mean to be human. Students prepare throughout the year for the AP Literature examination. Student writing reveals an ability to choose from and control a wide range of effective techniques for both analytical and personal, creative writing tasks. At this level frequent, analytical participation is required during the daily class discussion, which is often student-led. Complex, mature literature, often chosen from the AP Curriculum Guide, is the focus of class discussion. For example: *The Catcher in the Rye*, *Grapes of Wrath*, *The Great Gatsby*, *The Importance of Being Earnest*, *In Cold Blood*, *The Inferno*, *Lord of the Flies*, *Macbeth*, *Pride and Prejudice*, *The Scarlet Letter*, *The Sound and the Fury*, *The Sun Also Rises*. Students are assessed, in both their written and oral work, on evidence, insight, and sophistication. Students complete a summer reading assignment, midyear, and final.

Prerequisite: passed Junior English

SENIOR HONORS ENGLISH (041H)**5 credits**

This course is designed for college-bound seniors whose competence in English has been firmly established and/or for those who despite exceptional performance choose commitment to other disciplines over AP English. The rigorous curriculum, including *Hamlet*, requires students to read critically and analytically and write with a mature style. In a wide variety of writing assignments, students must demonstrate mastery of the skills and strategies of the writing process. Students will demonstrate their skill and knowledge through the summer assignment, traditional assessment, Socratic seminars, and several projects that implement technology.

Prerequisite: passed Junior English

SENIOR COLLEGE-PREPARATORY ENGLISH (042C)**5 credits**

This course is designed for college-bound seniors. Students are expected to demonstrate mastery of reading skills and strategies. The rigorous curriculum, including *Hamlet*, requires students to read critically and analytically and write with a mature style. In a wide variety of writing assignments, students must exhibit competence in the skills and strategies of the writing process and continue to develop an increasingly mature style. Students will demonstrate their skill and knowledge through the summer assignment, traditional assessment, Socratic seminars, and several projects that implement technology.

Prerequisite: passed Junior English

JOURNALISM H(052H) 2(054 H) 3(056H) 4 (058H)**5 credits**

This full-year elective, open to all students, seeks to teach students to be more discerning consumers of news by learning the foundations of journalism and journalistic writing and by collaborating as a news staff to produce and publish a digital news website and its accompanying social media to cover Norwood school district and community news. Through a combination of blended learning and a newsroom environment, students will master the skills it takes to be an educated and critical reader, writer, and consumer of media in all its forms.

JOURNALISM LAB C (053C) 2(055C) 3(057C) 4 (059 C)**2.5 Credits**

This full-year elective, open to all students, seeks to teach students to be more discerning consumers of news by learning the foundations of journalism and journalistic writing and by collaborating as a news staff to produce and publish a digital news website and its accompanying social media to cover Norwood school district and community news. Through a combination of blended learning and a newsroom environment, students will master the skills it takes to be an educated and critical reader, writer, and consumer of media in all its forms.

Yearbook (062C)

5 credits

This full-year elective, open to all students, teaches students to work as a team to engage in all aspects of the TIOT Yearbook production. Students will learn the principles of yearbook production, and will develop skills such as writing copy, captions, and headlines, digital photography, and building pages using Yearbook360. Students in this elective will create the year's edition of the TIOT Yearbook, with a final deadline at the end of March. With the remainder of the school year, students will use their yearbook production skills to create and design the Spring Supplement. Yearbook supports student development as writers, photographers, collaborators, editors, and technology users.

ENGLISH LEARNER PROGRAMS

ENGLISH- (EL 1) (015CP2)

5 credits

This course is designed for non-native speakers of English. The EL teacher administers WIDA Screener to determine placement in class. At the Entering Level of English language proficiency, students develop basic skills in listening, speaking, reading, and writing. There is a strong emphasis on expanding vocabulary and on English grammar and syntax. In addition, students are introduced to school and cultural values, enabling them to transition more easily to mainstream classes and American society.

ENGLISH- (EL 2) (025CP2)

5 credits

This course is designed for non-native speakers of English who have basic knowledge of English as demonstrated through the WIDA Screener or work in EL 1. At this Beginning Level of English language proficiency, the focus is to improve reading and writing skills and develop communication proficiency by employing more sophisticated English vocabulary, grammar, and syntax. Various genres of literature are studied with an emphasis on critical reading and interpretation. School and cultural values, enabling them to transition more easily to mainstream classes and American society, are reinforced.

ENGLISH-(EL 3) (035CP2) (0351)

2.5 OR 5 credits This course is designed for non-native speakers of English who are at the Developing Level of English language proficiency as demonstrated through the WIDA Screener or work in EL 2. At this level, the focus is to improve reading and writing skills and develop communication proficiency by employing more sophisticated English vocabulary, grammar, and syntax. Various genres of literature are studied with an emphasis on critical reading and interpretation. This class is in addition to a general English Language Arts course as an additional support and reinforcement.

MULTILANGUAGE LEARNER Literacy Lab) (061CP2)

2.5/5 credits

This course is designed for English language learners in the entering or beginning level of English language proficiency. The focus is on vocabulary acquisition, basic reading skills, phonics, and fluency. Students work on thematic units relevant to the cultural exposure.

MULTILINGUAL ACCELERATION PROGRAM (MAP)

MAP is programming for students with interrupted, formal education and/or with limited literacy in their first language. Most students in this program are in the emergent stages of literacy and numeracy skills development, as well as in English acquisition. Most of the students in this program are newcomers to U.S. schools and may be older. Instruction and programming is tailored to their academic and linguistic levels in order to build on their funds of knowledge. Students receive English, reading, writing, and mathematics instruction, as well as social science, science, wellness, and other key academic and socio-emotional elements of a meaningful school experience and help them to earn a high school diploma.

MAP ENGLISH - (015CP2/025CP2/035CP2/045CP2 MAP)

5 credits

This course is designed for non-native speakers of English who benefit from an alternative program. While English language proficiency varies among students, this course focuses on the basic but critical life skills of reading, writing, speaking, and listening. Emphasis is put on essential tasks such as reading comprehension, clear conveyance of thoughts, both spoken and written, and identification of reliable sources of information.

MAP FOUNDATIONS OF HIGH SCHOOL MATH - (215CP2 MAP)

5 credits

This course is designed to reinforce basic arithmetic skills while also providing students with experiences in Algebra I and Geometry. An attribute to this course is the focus on and attainment of mathematical language and vocabulary, in particular, Algebra I and Geometry. Beyond the reinforcement of skills with fractions, decimals, and percents, students will also study linear equations, systems of equations, functions, angles and triangles, pythagorean theorem, and similarity. This course prepares students for Algebra I and the Gr. 10 MCAS mathematics assessment.

MAP CIVICS - (016CP2 MAP)

5 credits

This course is designed for non-native speakers of English who benefit from an

alternative program. While differentiating for variety in English language proficiency, students are taught the basics of American Civics. Students learn how the U.S. government works, what their civil rights are, and ways they can participate in their community.

MAP INTRODUCTION TO BIOLOGY - (324CP2 MAP)

5 credits

This course is designed for non-native speakers of English who benefit from an alternative program. While differentiating for variety in English language proficiency, students are taught the basics of science, such as learning to understand the structure and function of the natural world.

ENGLISH- (Literacy Lab) (061CP2 MAP)

2.5/5 credits

This course is designed for English language learners in the entering or beginning level of English language proficiency. The focus is on vocabulary acquisition, basic reading skills, phonics, and fluency. Students work on thematic units relevant to the cultural exposure.

EL NEWCOMER PROGRAM

The EL Newcomer Program is for students with interrupted, formal education and/or with limited literacy in their first language. Most students in this program are in the emergent stages of literacy and numeracy skills development, as well as in English acquisition. The students in this program are newcomers to U.S. schools. Instruction and programming is tailored to their academic and linguistic levels in order to build on their funds of knowledge. Students receive English, reading, writing, and mathematics instruction, as well as social science, science, and other key academic and socio-emotional elements of a meaningful school experience and help them to earn a high school diploma.

ENGLISH- (EL 1) (015CP2)

5 credits

This course is designed for non-native speakers of English. The EL teacher administers the WIDA Screening to determine placement in class. At the Entering Level of English language proficiency, students develop basic skills in listening, speaking, reading, and writing. There is a strong emphasis on expanding vocabulary and on English grammar and syntax. In addition, students are introduced to school and cultural values, enabling them to transition more easily to mainstream classes and American society.

INTRO TO BIOLOGY - (324CP2)

5 credits

This course is designed for non-native speakers of English who are new to the United States and have Entering level of English language proficiency. The focus of the course is to slowly introduce content vocabulary and prepare the students for mainstream biology class. Course materials include procedures and expectations for lab safety, collaborative experiments, and subject specific reading and writing.

CIVICS - (016CP2)

5 credits

This course is designed for non-native speakers of English who are new to the United States and have Entering level of English language proficiency. This course focuses on introducing the basics of constitutional rights, balanced power, roles of elected officials, and civic involvement. The material is broken down into three units of study: geography, government, and civic participation.

FOUNDATIONS OF HIGH SCHOOL MATHEMATICS (215)

5 Credits

This course is designed to reinforce basic arithmetic skills while also providing students with experiences in Algebra I and Geometry. An attribute to this course is the focus on and attainment of mathematical language and vocabulary, in particular, Algebra I and Geometry. Beyond the reinforcement of skills with fractions, decimals, and percents, students will also study linear equations, systems of equations, functions, angles and triangles, pythagorean theorem, and similarity. This course prepares students for Algebra I and the Gr. 10 MCAS mathematics assessment.

WORLD LANGUAGES DEPARTMENT

The World Language Department in Norwood offers sequential programs in French, Latin, and Spanish. We also offer beginning courses in German. While World Language is not a graduation requirement, for those students considering college, a minimum of 2 years of study at the high school level is necessary. To be competitive in the admissions process, Norwood High School strongly recommends taking 3, 4 and 5 years of a language. Colleges express no preferences among the languages offered. We also encourage students to study more than one language. Knowledge of one world language facilitates and accelerates the learning of an additional world language.

French, German, and Spanish courses in Norwood adhere to the proficiency model of language instruction as set forth by the Massachusetts State Curriculum Frameworks and the National Standards for World Language Education. Students are presented with both grammar and vocabulary in context and are encouraged to express themselves in the target language as soon as possible. Each level of instruction develops skills in the following four areas: listening, speaking, reading and writing. Speaking in the target language during class time is expected. Additionally students will use the target language in interpersonal and presentational communication. Students are expected to speak in the

target language and to present in front of their peers.

It is important to note that the Massachusetts State Curriculum Frameworks for Latin have been modified to stress reading and writing over speaking and listening. Projects, games, and historical lessons, complement traditional grammar and vocabulary lessons. In addition, students learn to recognize parts of speech and vocabulary derivatives which enhance their understanding of their native language. The exploration of culture is also essential to a complete language education. Through computers, video, music, literature, and art, students will gain a better understanding of the target culture's lifestyle, history, customs and traditions.

LATIN 1 (150C, 159H)

5 CREDITS

This is an introductory course with an emphasis on the necessary vocabulary and grammar for the translation and comprehension of elementary Latin. Translations from the textbook (*Ecce Romani I*) introduce students to Roman culture from the early empire. Culture is integrated through supplemental readings pertaining to mythology, holidays, dress, and recent archeological discovery. Roman History is explored from the advent of Aeneas to Italy (ca. 1200 B.C.) through the Punic Wars (146 B.C.). Also emphasized is the heritage of Latin as a forbearer to modern world languages, in particular its relationship with English.

LATIN 2 (151C, 151H)

5 Credits

This course reinforces and continues the study of Latin vocabulary and grammar. Students can expect to complete the study of Latin grammar. Translations increase incrementally in both difficulty and length in the textbook (*Ecce Romani II*) and include cultural lessons pertaining to everyday Roman life in various social classes. Roman History is further explored from the end of the Punic Wars (146 B.C.) through social strife and Spartacus, civil wars and Sulla, and the advent of the first and second triumvirates (33 B.C.). Study of culture and history is supplemented by further readings from both primary and secondary sources. The relationship between Latin and English is further studied through etymology. The Honors course is differentiated from the College Preparatory Course by the amount of work and expectations placed upon graded materials.

Prerequisite: passed Latin 1

LATIN 3 (152H)

5 Credits

This course reinforces and completes all Latin grammar with the expectation that students will begin to translate and scan authentic Latin from such authors as Julius Caesar, Cicero, Catullus, Virgil, Phaedrus, etc. al.. Roman Culture and History from the reign of Augustus to the collapse of the empire is intricately studied through a variety of primary and secondary sources. Vocabulary fluency and etymological study continues in order to obtain fluency. Students who successfully complete the course will be prepared to

continue with Advanced Placement Latin.

Prerequisite: passed Latin 2

LATIN 4 (158H)

5 Credits

This course will focus on the theme of the "hero" in ancient literature and mythology. Parts of Virgil's Aeneid will be read and discussed as a literary work of art. The Iliad and Odyssey will be examined in translation, as well as certain Greek tragedies. Stories about real-life Roman heroes, written by Livy, Cicero, Sallust, and Caesar will also be read. There will be a review of Latin grammar. Roman history, from the Golden Age to the fall of Rome, will also be studied.

Prerequisite: passed Latin 3H

LATIN 4 Advanced Placement (153)

5 Credits

The AP Latin class will be taught as a university-level course. This approach is necessary due to the vast amount of material to be studied in preparation for the AP Latin exam. Based on the requirements outlined in the *AP Latin Course Description* students will:

- read and translate as literally as possible from Latin into English the required passages from Caesar's *Commentarii de Bello Gallico* and Vergil's *Aeneid*;
- analyze and write critical interpretations of passages from both works with appropriate references to authors' uses of stylistic and metrical techniques;
- read extended Latin passages aloud to appreciate literary devices and enhance understanding;
- practice translation of both prose and poetry sight passages in Latin to strengthen grammatical parsing and scansion in preparation for the multiple-choice section of the exam;
- read the required Caesar and Vergil English translations (I, VI, VII of Caesar and I, II, IV, VI, VIII, and XII of Vergil) and prepare a project on one of the sections not read in Latin;
- read critical interpretations of various subjects and books from assorted authors and experts in developing a greater understanding of and appreciation for Caesar's and Vergil's style, themes, viewpoints, and characters;
- discuss the historical, social, cultural, ethnographic, and political context of both works; understand elements of epic literature both thematic and poetic.

This course prepares students for the Advanced Placement Latin exam. It is expected that students will take the exam.

Please note: This course requires summer work.

Prerequisite: passed Latin 3

GREEK MYTHOLOGY (156C)

5 credits

This course will introduce students to the major myths of Greek antiquity, including the works of Hesiod (origin of the gods) and Homer (the Trojan War and Odysseus), stories of heroes (Hercules, Jason, Perseus, Theseus), the “nasty women” (the Gorgons, the Fates, the Furies, the Sirens), the “nice women” (the Muses, the Graces), the lovers (Orpheus and Eurydice, Cupid and Psyche), the haters (Apollo and Daphne, Echo and Narcissus) and monsters and beasts (the children of Echidna *et alt.*). Students will examine works of ancient and modern art that depict these stories. The legacy of Greek and Roman mythology will also be examined in modern literature and films. In addition to learning the characters and stories, students will also examine the nature and social function of mythology cross-culturally (Joseph Campbell’s work).

GREEK AND LATIN ROOTS OF ENGLISH (157C)

5 credits

More than 60 percent of all English words have ancient Greek or Latin roots. This percentage soars to 90 percent when we consider the specific vocabulary of the sciences and technology. This course will introduce students to the Greek and Latin roots commonly found in English, especially in the areas of biology, medicine, government, psychology, and astronomy.

SPANISH 1 (120H, 119C)

5 Credits

This introductory course is for students who are beginning their study of Spanish and for those coming into high school who would like to strengthen their basic skills. Students will begin the adventure of learning Spanish using authentic materials such as videos, articles, readings, songs and websites of the Spanish-speaking world. Through communicatively based activities, with a strong focus on speaking, students in Spanish 1 build the vocabulary and acquire the language functions that are used in everyday conversation. The themes of identity, leisure activities, family, school, food, fashion and friendship provide a lens through which to explore our own cultural practices and perspectives as well as those of people in the Spanish-speaking world. Students will work to improve their proficiency in speaking, reading, listening and writing to attain a Novice High proficiency level. Throughout the year, students will use the language skills that they acquire to do meaningful, relevant, real-world tasks. This course is conducted in Spanish

*This course is not for heritage speakers of Spanish or Portuguese

SPANISH 2 (121H, 122C)

5 Credits

Following the ACTFL world-readiness standards, the course emphasizes the three modes of communication (interpretive, interpersonal, and presentational). Students are expected to grow in their proficiency both culturally and linguistically, with topics that relate to real-world experiences to attain an Intermediate Low proficiency level. They will learn to express themselves in a more sophisticated way, creating sentences and learning transition words. This course will give students a background in Francophone cultures by studying products, practices, and perspectives emerging from those cultures. This course

is taught in Spanish. The honors course is differentiated from the college program by the amount and difficulty of reading, writing, and oral assignments. Honors students will be expected to master material at a faster pace and the course is more focused on accuracy and fluency.

Prerequisite: passed Spanish 1C

*This course is not for heritage speakers of Spanish or Portuguese

SPANISH 3 (126H, 127C)

5 Credits

This course continues to follow the ACTFL world-readiness standards, and continues to emphasize the three modes of communication (interpretive, interpersonal, and presentational). Students continue to develop their skills to communicate effectively in Spanish, analyze authentic texts and interact with cultural understanding. Vocabulary and language functions are acquired in context from thematic units on a wide variety of topics including family, the environment, following directions, and social action. Students improve their proficiency in speaking, reading, listening and writing through participating in spontaneous conversations, retelling stories and begin to use past, present, and future tenses. In each unit, students will use the language skills that they acquire to do meaningful, relevant, real-world tasks as they move from Intermediate Low proficiency towards Intermediate Mid. This course is taught exclusively in Spanish. The honors course is differentiated from the college program by the length and difficulty of reading, writing, and oral assignments. Honors students complete summer work, and are expected to master material at a faster pace. The course is more focused on accuracy and fluency.

Prerequisite: passed Spanish 2H or 2C

SPANISH 4 (130H, 131C)

5 Credits

This course continues to follow the ACTFL world-readiness standards, and continues to emphasize the three modes of communication (interpretive, interpersonal, and presentational). Students continue to develop their skills to communicate effectively in Spanish, to analyze authentic texts and to interact with cultural understanding. Authentic texts, audio, and video materials are used to provide a more in depth study of the cultural products, perspectives and practices of the Spanish-speaking world. Students continue to create with the language, use the three major tenses: past, present, and future, and communicate in more organized and detailed discourse as they move from Intermediate Mid proficiency towards Intermediate High. Topics include: global issues, personal relationships, and politics.

The honors course is differentiated from the college program by the amount and difficulty of reading, writing, and oral assignments. Honors students are required to complete summer work, which includes reading, writing, and the preparation of an oral presentation. Honors students will be expected to master material at a faster pace and the course is more focused on accuracy and fluency.

Prerequisite: passed Spanish 3H or 3C

SPANISH 4AP (138)

5 Credits

This course is designed for juniors who wish to take the AP Spanish Language and Culture Exam in May of their senior year. It is therefore a two-year commitment. **This course is comparable to a third-year, second semester university course.** As such, students will watch films and read literature that deal with mature themes for their cultural and historical perspectives.

The main objective of The Advanced Placement Spanish Language course is the development of students' communication skills in Spanish. The course emphasizes conversation and composition and is comparable to a third-year university course. As such, students will watch films and read literature that deal with mature themes for their cultural and historical perspectives. Through the use of authentic materials students will integrate the four skills of listening, speaking, reading and writing. Specifically students will:

- comprehend the spoken and written word in conversations, lectures, oral presentations, newspapers, magazines, short stories, novels and film;
- gain proficiency and confidence to express ideas orally with accuracy and fluency;
- compose well-organized and coherent essays using acquired vocabulary and grammatical structures.

This course will be taught predominantly in Spanish. English will be used for the clarification of complex grammar topics. It is expected that students will speak in Spanish at all times during the class period. Students will visit the language lab twice during our seven day cycle to improve listening and speaking skills, to improve pronunciation and fluency and to integrate newly acquired vocabulary and grammatical structures. Students will be required to read and to write in class and at home.

This course prepares students for the Advanced Placement Spanish Language exam. It is expected that students will take the exam. Please note: This course requires summer work.

Prerequisite: Teacher recommendation based on success in Spanish 3 Honors.

SPANISH 5 AP (132)

5 Credits

This course is for seniors who began their study of AP Spanish as juniors. This course is comparable to a third-year, university course. As such, students will watch films and read literature that deal with mature themes for their cultural and historical perspectives. The course offers an in-depth study of Spanish literature written by a variety of authors required by the College Board. Students are expected to participate in class discussions, write essays, and give oral presentations in Spanish.

This course will be taught predominantly in Spanish. English will be used for the

clarification of complex grammar topics. It is expected that students will speak in Spanish at all times during the class period. Students will visit the language lab twice during our seven day cycle to improve listening and speaking skills, to improve pronunciation and fluency and to integrate newly acquired vocabulary and grammatical structures. Students will be required to read and to write in class and at home. Extensive written and independent oral production is expected.

This course prepares students for the Advanced Placement Spanish Language and Culture exam. It is expected that students will take the exam.

Please note: This course requires summer work.

Prerequisite: Teacher recommendation based on success in AP Spanish 4.

SPANISH 5 - COMPOSITION AND CONVERSATION THROUGH FILM (133H, 134C)

5 Credits

This course is designed as an alternative to Advanced Placement for students who wish to continue the study of Spanish. The course will continue to develop students' proficiency in the four skills of listening, speaking, reading, and writing, as well as deepen their cultural understanding of the Hispanic world. This course is taught predominantly through using a variety of authentic, feature films from the Spanish-speaking world. Using the ACTFL world readiness standards and the three modes of communication (interpersonal, interpretive, presentational) students create with the language to increase their level of proficiency to range from Intermediate High to Advanced.

The honors course is differentiated from the college level in the amount of work, the level of expectation, and the grading system. Honors students are required to complete summer work, which includes reading, writing, and the preparation of an oral presentation. Honors students will be expected to master material at a faster pace.

Prerequisite: passed Spanish 4H or 4C

FRENCH 1 (109H, 110C)

5 Credits

This introductory course is for students who are beginning their study of French and for those coming into high school who would like to strengthen their basic skills. Students will begin the adventure of learning French using authentic materials such as videos, articles, readings, songs and websites of the French-speaking world. Through communicatively based activities, with a strong focus on speaking, students in French 1 build the vocabulary and acquire the language functions that are used in everyday conversation. The themes of identity, leisure activities, family, school, food, fashion and friendship provide a lens through which to explore our own cultural practices and perspectives as well as those of people in the French-speaking world. Students will work to improve their proficiency in speaking, reading, listening and writing to attain a Novice High proficiency level. Throughout the year, students will use the language skills that they acquire to do meaningful, relevant, real-world tasks. This course is conducted in French.

FRENCH 2 (111H, 112C)**5 Credits**

Following the ACTFL world-readiness standards, the course emphasizes the three modes of communication (interpretive, interpersonal, and presentational). Students are expected to grow in their proficiency both culturally and linguistically, with topics that relate to real-world experiences to attain an Intermediate Low proficiency level. They will learn to express themselves in a more sophisticated way, creating sentences and learning transition words. This course will give students a background in Francophone cultures by studying products, practices, and perspectives emerging from those cultures. This course is taught in French.

The honors course is differentiated from the college program by the amount and difficulty of reading, writing, and oral assignments. Honors students will be expected to master material at a faster pace and the course is more focused on accuracy and fluency.

Prerequisite: passed French 1C

FRENCH 3 (114H, 115C)**5 Credits**

This course continues to follow the ACTFL world-readiness standards, and continues to emphasize the three modes of communication (interpretive, interpersonal, and presentational). Students continue to develop their skills to communicate effectively in French, analyze authentic texts and interact with cultural understanding. Vocabulary and language functions are acquired in context from thematic units on a wide variety of topics including family, the environment, following directions, and social action. Students improve their proficiency in speaking, reading, listening and writing through participating in spontaneous conversations, retelling stories and begin to use past, present, and future tenses. In each unit, students will use the language skills that they acquire to do meaningful, relevant, real-world tasks as they move from Intermediate Low proficiency towards Intermediate Mid This course is taught exclusively in French. The honors course is differentiated from the college program by the length and difficulty of reading, writing, and oral assignments. Honors students complete summer work, and are expected to master material at a faster pace. The course is more focused on accuracy and fluency.

Prerequisite: passed French 2H or 2C

FRENCH 4 (116H, 117C)**5 Credits**

This course continues to follow the ACTFL world-readiness standards, and continues to emphasize the three modes of communication (interpretive, interpersonal, and presentational). Students continue to develop their skills to communicate effectively in French, to analyze authentic texts and to interact with cultural understanding. Authentic texts, audio, and video materials are used to provide a more in depth study of the cultural products, perspectives and practices of the Francophone world. Students continue to create with the language, use the three major tenses: past, present, and future, and

communicate in more organized and detailed discourse as they move from Intermediate Mid proficiency towards Intermediate High. Topics include: global issues, personal relationships, and politics.

The honors course is differentiated from the college program by the amount and difficulty of reading, writing, and oral assignments. Honors students are required to complete summer work, which includes reading, writing, and the preparation of an oral presentation. Honors students will be expected to master material at a faster pace and the course is more focused on accuracy and fluency.

Prerequisite: passed French 3H or 3C

FRENCH 4 AP LANGUAGE AND CULTURE (124)

5 credits

This course is designed for juniors who wish to take the AP French Language and Culture Exam in May of their senior year. It is therefore a two-year commitment. **This course is comparable to a third-year, second semester university course.** As such, students will watch films and read literature that deal with mature themes for their cultural and historical perspectives.

This course is the first year in a two-year sequence designed to develop students' communication skills in French. The course emphasizes conversation and composition and is comparable to a third-year university course. Through the use of authentic materials students will integrate the four skills of listening, speaking, reading and writing. Specifically students will:

- comprehend the spoken and written word in conversations, lectures, oral presentations, newspapers, magazines, short stories, novels and film;
- gain proficiency and confidence to express ideas orally with accuracy and fluency;
- compose well-organized and coherent essays using acquired vocabulary and grammatical structures.

This course will be taught predominantly in French. English will be used for the clarification of complex grammar topics. It is expected that students will speak in French at all times during the class period. Students will visit the language lab twice during our seven -day cycle to improve listening and speaking skills, to improve pronunciation and fluency and to integrate newly acquired vocabulary and grammatical structures. Students will be required to read and to write in class and at home. Practice AP exams and other AP work will be assigned frequently. This course prepares students for the Advanced Placement French Language exam. It is expected that students will take the exam.

Please note: This course requires summer work.

Prerequisite: passed French 3H with an 85 and teacher recommendation

FRENCH 5 AP LANGUAGE AND CULTURE (118)

5 credits

This is the second year of a two-year sequence begun in French 4AP. Students continue to develop communication skills in French. The course emphasizes conversation and composition and is comparable to a third-year university course. Through the use of authentic materials students will integrate the four skills of listening, speaking, reading and writing. Specifically students will:

- comprehend the spoken and written word in conversations, lectures, oral presentations, newspapers, magazines, short stories, novels and film;
- gain proficiency and confidence to express ideas orally with accuracy and fluency;
- compose well-organized and coherent essays using acquired vocabulary and grammatical structures.

This course will be taught predominantly in French. English will be used for the clarification of complex grammar topics. It is expected that students will speak in French at all times during the class period. Students will visit the language lab twice during our seven -day cycle to improve listening and speaking skills, to improve pronunciation and fluency and to integrate newly acquired vocabulary and grammatical structures. Students will be required to read and to write in class and at home. Practice AP exams and other AP work will be assigned frequently. This course prepares students for the Advanced Placement French Language exam. It is expected that students will take the exam.

Please note: This course requires summer work.

Prerequisite: passed French 4AP with an 85 and teacher recommendation

FRENCH 5 (135H, 136C)

5 Credits

This course is designed as an alternative to Advanced Placement French 5 for students who wish to continue the study of French. The course will continue to develop students' proficiency in the four skills of listening, speaking, reading, and writing, as well as deepen their cultural understanding of the Francophone world. There will be an emphasis on improving listening comprehension using authentic materials such as films, as well as extensive speaking practice. Readings include newspaper and magazine articles as well as literary selections. Attention will be given to improvement in writing and strengthening skills in the Intermediate High proficiency level.

The honors course is differentiated from the college program by the length and difficulty of reading, writing, and oral assignments. Honors students are required to complete summer work, which includes reading, writing, and the preparation of an oral presentation. Honors students will be expected to master material at a faster pace.

Prerequisite: passed French 4H or 4C

GERMAN 1 (141)

5 Credits

This introductory course is for students who are beginning their study of German and for those coming into high school that would like to strengthen their basic skills. Students will begin the adventure of learning German using authentic materials such as videos,

articles, readings, songs and websites of the German-speaking world. Through communicatively based activities, with a strong focus on speaking, students in German 1 build the vocabulary and acquire the language functions that are used in everyday conversation. The themes of identity, leisure activities, family, school, food, fashion and friendship provide a lens through which to explore our own cultural practices and perspectives as well as those of people in the German-speaking world. Students will work to improve their proficiency in speaking, reading, listening and writing to attain a Novice High proficiency level. Throughout the year, students will use the language skills that they acquire to do meaningful, relevant, real-world tasks. This course is conducted in German.

GERMAN 2 (142H, 143C)

5 Credits

Following the ACTFL world-readiness standards, the course emphasizes the three modes of communication (interpretive, interpersonal, and presentational). Students are expected to grow in their proficiency both culturally and linguistically, with topics that relate to real-world experiences to attain an Intermediate Low proficiency level. They will learn to express themselves in a more sophisticated way, creating sentences and learning transition words. This course will give students a background in German culture by studying products, practices, and perspectives emerging from those cultures. This course is taught in German. The honors course is differentiated from the college program by the amount and difficulty of reading, writing, and oral assignments. Honors students will be expected to master material at a faster pace and the course is more focused on accuracy and fluency.

Prerequisite: passed German 1C

Social Justice Leadership (486)

2.5 Credits

This course is a minor elective intended for students in grades 9-11.. Major units of study include contemporary domestic and international social issues, and the importance of civic engagement. Through coursework and project-based learning, students will acquire tools to help them in becoming informed and engaged global citizens. Using the United Nations' Sustainable Development Goals, students will create an action project. Students are expected to work on the project in and out of the classroom.

MATHEMATICS DEPARTMENT

The mathematics department recognizes that knowledge of basic mathematics is essential in order for individuals to successfully function in a technological society. We also realize that an appreciation of the techniques and powers of mathematics is beneficial for citizens to understand in order to participate intelligently in our democracy. In addition, we note that technology plays an important role in our culture. Students should understand the powers and limitations of computers and be able to use technology to enhance their understanding and skills of writing and calculating, as well as accessing

and organizing information. Finally, we believe that all students should be helped to appreciate the beauty and structure of mathematics and the techniques of mathematical reasoning, so they can experience the exhilaration that comes from discovery and the confidence that is borne of competence.

The mathematics department provides a menu of courses that pursue these goals in ways appropriate to the widely differing interests and proficiencies of our students. Every course helps students improve basic skills they will need for everyday life and to become college or career ready. Thus each student needs to demonstrate proficiency in computing, using higher order thinking skills, and communicate mathematical and real world ideas concerning data. Students are grouped by performance and are encouraged to take courses that will maximize their potential and lead to desired outcomes.

The purchase and implementation of new textbooks and curricula materials for all math classes in alignment with the revised curriculum standards is helping to stimulate student thought and produce a more innovative learning environment.

Algebra 1 (209H, 212C)

5 Credits

The high school Algebra 1 course is designed for students who have had success in an Introduction to Algebra course or Pre-Algebra equivalent and are ready to delve into the rigors of a full college-prep Algebra 1 course. Solving linear equations of all types and complexity from simple to those requiring multiple steps is emphasized. The concept of slope as it pertains to change within linear relationships is examined in detail along with graphs of linear, quadratic, and other families of functions. Systems of linear and non-linear equations are analyzed. Polynomial techniques, factoring, and analyzing inequalities and quadratic equations are studied. At the end of this course students should have a solid understanding of Algebra 1 topics and be successful in subsequent college and career ready math courses at the high school.

GEOMETRY (210H, 221C)

5 Credits

Geometry is the study of points, lines, planes, angles, two-dimensional shapes, and three-dimensional objects. Students discover facts about them, learn definitions, and practice using formulas to compute lengths, areas, and volumes. Students learn how to use intuition and inductive logic to discover general principles. The course consists of using deductive reasoning to prove theorems by constructing orderly chains of statements and reasons. Many classroom demonstrations and homework problems use the skills learned in Algebra 1 and prepare students to take Algebra 2.

Prerequisite: passed Algebra 1

ALGEBRA 2 (220H, 231C)

5 Credits

Algebra 2 is a year-long course designed to develop the essential skills that a student

needs to understand higher level mathematical topics including the structure of the complex number system and the concept of a function and its applications. Students will study both the real and the complex number systems, methods of solving equations, coordinate geometry, theory of functions, logarithms, progressions, and exponential models.

Prerequisite: passed any geometry course

INTRODUCTION TO ALGEBRA 2 (236 CP2)

5 Credits

Introduction to Algebra 2 is a course designed for those students who have had difficulties meeting expectations on standardized math assessments and in passing Algebra 1 and/or Geometry and who could benefit by more instruction and extension of core concepts before advancing on to Algebra 2. Algebraic and geometric concepts and skills will be strengthened in order to solidify student knowledge and investigate introductory topics in Algebra 2.

Prerequisite: passed Algebra 1 and Geometry

AP CALCULUS AB (243AP)

5 Credits

Calculus is a course intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, Euclidean geometry, trigonometry, and analytic geometry (rectangular and polar coordinates, equations and graphs, lines, and conics). It is designed to provide students with the fundamentals of a one semester college calculus course. Following the advanced placement syllabus, students will study theory of elementary functions, limits, differentiation, and integration.

Prerequisite: passed Precalculus/Trigonometry H

CALCULUS/DISCRETE MATH (241H)

5 Credits

This course is designed for students who have a good background in precalculus and trigonometry but do not wish for the rigor and content of an AP syllabus. Topics will include differential and integral calculus.

Prerequisite: passed Precalculus/Trigonometry

AP PRECALCULUS (247AP)

5 Credits

The aims and objectives of AP Precalculus are to continue the growth and development of functions at a deeper, conceptual level. Students will acquire and apply mathematical modeling tools to be used in calculus. The course will focus on exploring functions types that are foundational to mathematics, physics, biology, health science, social science, and data science.

The course of study includes, namely, polynomial and rational functions, exponential and logarithmic functions, trigonometric and polar functions, and functions with vectors and

matrices.

Prerequisite: passed Algebra 2H, preference to seniors

PRECALCULUS/TRIGONOMETRY (246C, 251H)

5 Credits

The aims and objectives of precalculus/trigonometry are to continue the growth of the total concept of reasoning and mathematical knowledge in the mind of the student and to provide for the student a sound basis for the mathematics encountered in calculus.

Included in this course is a review of algebra and geometry while simultaneously exploring and investigating the theory and practice of relations and functions, trigonometry, analytical geometry, the properties of limits, mathematical induction, and the theory of equations.

Prerequisite: passed Algebra 2

SENIOR COLLEGE MATH (245C)

5 Credits

This course is a college preparatory course with a focus on modeling that is designed for seniors who have completed Geometry and Algebra 2. The course explores the intersection between mathematics and the real world phenomena through the lens of mathematical modeling. This course extends topics from Algebra 2 and Geometry along with an introduction to inductive reasoning, trigonometry, statistics, probability, data analysis, and applications of various higher-level mathematical concepts.

Prerequisite: passed Algebra 2

AP STATISTICS (270AP)

5 Credits

Students will learn the fundamentals of a one-semester college statistics course. The topics for the course are divided into four major themes: exploratory data analysis, planning a study, probability, and statistical inference. The TI-83/84 graphing calculator will be utilized throughout the course. AP Statistics may be taken concurrently with Precalculus, AP Calculus, or Calculus/Discrete Math.

Prerequisite: passed Algebra 2H or Algebra 2 (231)

DATA, STATISTICS, AND PROBABILITY (271H)

5 Credits

This course will provide an introduction to a wide range of statistical concepts. Some basic concepts learned previously will be reinforced and expanded upon, including measures of center and spread. Focus will be placed heavily on interpretation of statistical measures, rather than merely on calculation. The course will be activity-driven, involving manipulation of real-world data and address statistical manipulation and bias. The TI 83/84 calculator will be used throughout the course.

Prerequisite: passed Algebra 2

FOUNDATIONS OF HIGH SCHOOL MATHEMATICS (215 CP2)

5 Credits

This course is designed to reinforce basic arithmetic skills while also providing students with experiences in Algebra I and Geometry. An attribute to this course is the focus on and attainment of mathematical language and vocabulary, in particular, Algebra I and Geometry. Beyond the reinforcement of skills with fractions, decimals, and percents, students will also study linear equations, systems of equations, functions, angles and triangles, pythagorean theorem, and similarity. This course prepares students for Algebra I and the Gr. 10 MCAS mathematics assessment.

MATH STRATEGIES (205E)

2.5 CREDITS

The Math Strategies is designed to be a dynamic and personalized learning experience to provide support and intervention for students seeking to reinforce and master core mathematical content. Whether you're working on assignments, preparing for assessments, or aiming to enhance your problem solving skills, the Math Strategies is here to empower you on your mathematical journey.

DATA SKILLS (272 CP2)

5 Credits

A full-year course designed to introduce students to ways of analyzing data critically. Citizens are bombarded with data on a daily basis. Understanding data, extracting useful information, recognizing points of view and spin, and communicating are essential skills in our society. This class will delve into analyzing and constructing data displays, communicating ideas, assessing the validity of information, making decisions and drawing conclusions. An aim of this course is to look at data derived from many settings including sports, politics, medicine, and economics.

Prerequisite: passed Geometry

Mathematical Art (206C)

2.5 credits

This course is designed and intended for students in grades 9 - 12 to explore the beauty of mathematics by way of art. This course will introduce students to circuits, graph theory, coloring, cardioids, fractals, pixel art, recursive drawings, and M.C. Escher's impossible objects. This course will provide access and/or extend topics related to Algebra and Geometry and will meet every other day for the school year.

BUSINESS

ACCOUNTING 1 (524C)

2.5 Credits

This is a full year elective offered to students in grades 9-12 with classes meeting every

other day. Students will have the opportunity to learn the complete accounting cycle; learn the accounting subsystems of cash receipts, cash payments, purchases, sales, personnel and payroll taxes and general accounting; and learn to prepare financial reports. The course integrates manual and automated accounting through the use of the computer system and automated software. The Accounting 1 minor course incorporates project based learning and real world understanding of how proprietorships operate throughout the accounting cycle. As a minor course, this course aims to provide more of an overhead view of key accounting concepts.

ACCOUNTING 2 (536C, 534H)

5 Credits

While reinforcing the accounting principles and concepts in Accounting 1, this course focuses on more complex concepts of financial and managerial accounting. Emphasis is placed on controlling current and long-term assets and liabilities; accounting for partnerships and corporations; and preparing and interpreting financial reports. The course integrates manual and automated accounting through the use of the computer system and accounting software. The course aims to provide students with an understanding of accounting principles of a merchandising corporation through real world examples and project based activities.

Prerequisite: passed Accounting 1

ACCOUNTING 3 (537C, 538H)

5 Credits

Continuing to build fundamental accounting principles, this course provides a review of general accounting using an accounting cycle for a departmentalized merchandising business, while also focusing on various adjustments and valuations. Students will also be introduced to specialized fields such as management and cost accounting. Considerable time will be given to advanced automated accounting procedures and spreadsheet applications. Students will develop an understanding of the potential career paths in accounting and business.

Prerequisite: passed Accounting 2

Accounting 4 (541H, 540C)

5 Credits

This is a full year course offered to students in grade 12. This course will be a culmination of the NHS Accounting program. Students will utilize Virtual Accounting simulations that provide in-depth review of Managerial Accounting and other key concepts learned throughout the program. The simulation will give students the opportunity to run their own business as well as explore various components of Forensic Accounting. Students will also utilize Intuit Quickbooks and learn first hand how this software is leveraged by Small Business owners in the 21st century.

Prerequisite: Passed Accounting 3

Marketing (558C)

2.5 credits

This course will be available for students grades 9-12 and will meet everyday for 90 days (or every other day for the year). Students will build fundamental knowledge of various marketing skills. An introduction to marketing will focus on the marketing mix and how promotion, price, place and product connect business and consumers. Students will also take a look at real world application of marketing and how 20th century consumerism has shaped the marketing world. Students will analyze how marketing ties into the other sectors of business. An in-depth understanding of the marketing profession will be developed throughout the course.

Management (557C)

2.5 credits

This course will be available for students grades 9-12 and will meet everyday for 90 days (or every other day for the year). Students will explore forms and theories of business management; sport management, typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing. An in-depth understanding of the management profession will be developed throughout the course.

INTERNSHIP I (7716C)

5 Credits

The internship course is an opportunity for students to prepare for and further explore their interest in an industry or career area. Students in this course will be guided through a series of career development activities to prepare them for an internship placement. During the first semester, students will attend class where topics covered include career development and research, aptitude testing (including the National Career Aptitude System), resume writing, interviewing techniques, interpersonal relationships, attitude, teamwork and leadership, time management, and workplace ethics. Satisfactory completion of semester one will afford the student the opportunity to intern at a business or organization in semester two. Internship placement will enhance the concepts learned in semester one by allowing students to demonstrate their understanding of workplace readiness. Throughout the course students will be encouraged to reflect on their experiences to continue to identify areas of personal and professional strength and growth. Students will be assigned a site mentor, determined by the internship placement site. Students will be evaluated on eight workplace competencies established by the Massachusetts Department of Education. Students will receive academic credit upon completion of the internship. Students in this course will be expected to complete work-based learning plans with their site mentor, as well as document learning experiences in journal entries and any final assignments given to complete the course. Participation requires students to attend school for five periods a day and work a minimum of five hours per school week. Students must be at least 16 years of age and will be required to have an annual physical examination, and comply with any employer

occupational health and safety mandates. Student interns must be responsible, reliable and independent, self-motivated learners.

INTERNSHIP II (77160C)

5 Credits

The internship courses are an opportunity for students to prepare for and further explore their interest in an industry or career area. Internship II is a continuation of experiential learning through student placement at internship sites with a designated mentor from the student's desired industry aligned with post-secondary education goals. The placement spans two semesters where students can expand their knowledge, skills, and experience in an industry through increased exposure to product or service offerings that said business or organization provides. Throughout the course students will be encouraged to reflect on their experiences to continue to identify areas of personal and professional strength and growth. Students will be assigned a site mentor, determined by the internship placement site. Students will be evaluated on eight workplace competencies established by the Massachusetts Department of Education. Students are required to complete a set of internship deliverables that include, weekly time-sheets, journal entries, list of accomplishments and skills obtained, work-based learning contract, and a resume. Students will receive academic credit upon completion of Internship II. Internship II enrollment requires students to attend school for five periods a day and intern a minimum of five hours per school week. Students are responsible for transportation to and from internship placements. Student interns must be responsible, reliable and independent, self-motivated learners. The prerequisite for this course is successful completion of Internship I, with a final grade of B or higher or approval from program director, school counselor and or principal.

Work Based Learning (WB101)

5 Credits

10 Credits available upon approval of an Administrator.

The work-based learning course allows students to practically apply principles and skills learned beyond the classroom in a real world work setting that matches the student's interest and ability. Work-based learning opportunities center on a partnership between the local workforce and school community. The student, teacher, and employer work together to create a unique learning experience based on the students role and responsibilities at an organization. In work-based learning students are introduced to the various systems and structures that are found in most business operations. Through work students will be able to determine career areas to consider for further investigation and exploration. Students in this course will be expected to complete work-based learning plans with their supervisor, as well as document learning experiences in journal entries and any final assignments given to complete the course. Participation requires students to attend school for five periods a day and work a minimum of 10 hours per school week. Students must be at least 16 years of age and will be required to have an annual physical examination, and comply with any employer occupational health and safety mandates. This course may be taken upon approval from the student's guidance counselor. Specific

guidelines and rules will be distributed to all candidates at an initial meeting. Students in grades 11 and 12 are eligible for this course.

SCIENCE

All students must complete three science courses as a graduation requirement. The first two courses must be Physical Science and Biology or Honors Biology and Chemistry.

PHYSICAL SCIENCE (311C)

5 credits

The Physical Science course includes a variety of topics: the scientific method, standards of measurement, force, work, energy, motion, velocity, acceleration, waves, sound, electricity, phases of matter, classification of matter, atomic structure, and chemical bonds. The course topics are directly correlated to the "Massachusetts Curriculum Framework in Science." As such, the students will be prepared to take the Introduction to Physics MCAS exam. Students will conduct experiments to enhance their learning experience.

Prerequisite: passed eighth grade science

HONORS BIOLOGY (310H)

5 Credits

The lab-based course provides students with a fundamental understanding and appreciation of biology. The honors level is for ninth and 10th grade students who are able and motivated to study and learn independently. Topics in this course align with the Massachusetts Biology Curriculum Framework and include biochemistry, cells, heredity, evolution, ecology and human systems. Lab experiences are an essential part of this course which teach students common science practices. The course prepares students to succeed on the Biology MCAS test administered to all Biology students in the Spring. As a requirement for a high school diploma, the state requires students to pass a science MCAS exam.

Prerequisite: passed eighth grade science

COLLEGE-PREPARATORY BIOLOGY (324C)

5 Credits

The lab-based course provides students with a fundamental understanding and appreciation of biology. Most students take biology as tenth graders. Topics in this course align with the Massachusetts Biology Curriculum Framework and include biochemistry, cells, heredity, evolution, ecology and human systems. Lab experiences are an essential part of this course which teach students common science practices. The course prepares students to succeed on the Biology MCAS test administered to all Biology students in the Spring. As a requirement for a high school diploma, the state requires students to pass a science MCAS exam.

Prerequisite: passed Physical Science

MCAS TUTORIAL BIOLOGY (328S)

2.5 Credits

This course is designed for students who are preparing for the Biology MCAS retest exam. A small group setting will provide more access to individualized attention. All levels of life are included: cells, tissue, organs, species and populations. The course topics are directly correlated with the state's biology standards. There will be a particular focus on MCAS Biology exam test taking skills and practice questions.

HONORS CHEMISTRY (320H)

5 Credits

The lab-based course provides students with an understanding of chemistry fundamental theories and applications. The honors level is for students who are able and motivated to study and learn independently. This course places a heavy emphasis on mathematical analysis and higher order thinking skills. Topics in this course align with the Massachusetts Chemistry Curriculum Framework and include matter, bonding, chemical reactions, atomic theory, periodicity, the mole concept, stoichiometry, states of matter, solutions, acids and bases, equilibrium, kinetics, and energy changes. Lab experiences are an essential part of this course and students will be required to develop some basic lab skills and practices

Prerequisite: passed Biology

COLLEGE-PREPARATORY CHEMISTRY (332C)

5 Credits

The lab-based course provides students with the fundamental concepts and applications of chemistry. Topics in this course align with the Massachusetts Chemistry Curriculum Framework and include matter, bonding, chemical reactions, atomic theory, periodicity, the mole concept, stoichiometry, states of matter, solutions, and acids and bases. Students are expected to be able to solve word problems using basic algebra. Lab experiences are an essential part of this course and students will develop some basic lab skills and practices

Prerequisite: passed Biology and Algebra 1

HONORS PHYSICS (330H)

5 Credits

The Honors Physics course explores the fundamental laws that govern the universe. Concepts such as velocity, acceleration, force, momentum, and energy are used to investigate motion, gravity, friction, pressure, heat, waves, and electromagnetism. Labs provide concrete demonstrations of physical principles. The curriculum prepares students for most SAT II Physics topics. There will be significantly higher academic expectations of students in honors level courses.

Prerequisite: passed Algebra 2 and Honors Chemistry, alternate math prerequisite is available

COLLEGE-PREPARATORY PHYSICS (343C)

5 Credits

The College Physics course explores the fundamental laws that govern the universe. The conceptual laboratory and mathematical approach is used to study mechanics, forces, momentum, energy, waves, and electromagnetism. Lab investigations provide reinforcement of the conceptual and computational components of the course.

Prerequisite: passed Chemistry and passed or concurrently taking Algebra 2

FORENSIC SCIENCE- Honors (314H)

5 Credits

Forensic Science is designed to introduce students to the ways science and the scientific method are applied to matters of law. The course is offered to eleventh and twelfth grade students. The history and current state of forensic science is covered. Topics in the course of study include crime scene analysis, serology (the study of bodily fluids), trace evidence of hairs and fibers, fingerprinting, handwriting and typescript analysis of documents, forensic anthropology, among others. Extensive laboratory investigations, such as running gel electrophoresis, blood typing and blood spatter analysis, will be an integral part of the Forensic Science course. There will be significantly higher academic expectations of students in the honors level.

Prerequisites: passed Physics (or concurrently enrolled)

FORENSIC SCIENCE (312C)

5 Credits

Forensic Science is designed to introduce students to the ways science and the scientific method are applied to matters of law. The course is offered to eleventh and twelfth grade students. The history and current state of forensic science, along with topics of crime scene analysis, collection and examination of physical evidence, properties of matter and glass analysis, serology (the study of bodily fluids), trace evidence of hairs and fibers, trace evidence of paints and metals, fingerprinting, ballistics and tool marks, fire and explosion investigations, handwriting and typescript analysis of documents, computer forensics, and forensic anthropology. Laboratory investigations will be an integral part of the Forensic Science course.

Prerequisites: passed Biology

HONORS ANATOMY AND PHYSIOLOGY (347H)

5 Credits

The Anatomy and Physiology course is designed for the student interested in the study of medical science as well as those interested in the study of structure and function of the human body. The course stresses the study of human body systems and their basic units of structure and function. There is a strong emphasis on laboratory work including dissection. Dissection is fundamental to the study of Anatomy and Physiology. As such, it is a necessary part of this lab course. There will be significantly higher academic expectations of students in honors level courses.

Prerequisite: passed or concurrently taking Physics

COLLEGE-PREPARATORY ANATOMY AND PHYSIOLOGY (348C)

5 Credits

The Anatomy and Physiology course is designed for the student with a continuing interest in biological systems. The course is offered to eleventh and twelfth grade students. There is an emphasis on the study of the human body's structure and function. Laboratory experience is provided and includes the study of each of the body systems. There is a strong emphasis on laboratory work including dissection. Dissections are fundamental to the study of Anatomy and Physiology and as such are a requirement for this lab based course.

Prerequisite: passed Chemistry

AP BIOLOGY (340AP)

5 Credits

AP Biology is an intensive, first-year college level biology course. It is designed to prepare the student for the Advanced Placement Biology exam. It includes the interplay of genetics, evolution, energy, and the systems of living processes. Taxonomy and the evolutionary significance of organism processes will be discussed. Students will be encouraged to take the Advanced Placement Biology exam.

Prerequisite: passed or concurrently taking Physics

AP PHYSICS I (351 AP)

5 credits

AP Physics is an intensive, first-semester college level Physics course. It is designed to prepare students for the Advanced Placement Physics I exam. The topics of Newtonian Mechanics, such as velocity, acceleration, force, momentum, and rotation are discussed, along with an introduction to electric circuits. Labs provide concrete demonstrations of physical principles. Students will be encouraged to take the Advanced Physics I: Algebra Based exam.

Prerequisite: passed Algebra 2 and Honors Chemistry

AP PHYSICS II (352 AP)

5 credits

AP Physics is an intensive, second-semester college level Physics course. It is designed to prepare students for the Advanced Placement Physics II exam. The topics of electricity and magnetism, fluid dynamics, thermodynamics, waves, optics, and modern physics are discussed. Labs provide concrete demonstrations of physical principles. Students will be encouraged to take the Advanced Placement Physics II: Algebra Based exam.

Prerequisite: passed AP Physics I or Honors Physics

AP CHEMISTRY (341AP)

5 Credits

AP Chemistry is an intensive, first-year college level chemistry course. It is designed to prepare students for the Advanced Placement Chemistry exam. Topics emphasized include acids and bases, equilibrium, kinetics, thermochemistry, electrochemistry, and redox reactions. Students will be encouraged to take the Advanced Placement Chemistry exam.

Prerequisite: passed Physics

ENVIRONMENTAL SCIENCE– (325CP)

5 Credits

In this full year course, students will learn about the principles of Environmental Science. Topics will include biodiversity, population growth, natural resources, land and water use, energy resources and consumption, and global issues. Students will be faced with real world situations and citizen science opportunities. Much of the assessment involves project based learning. Discussions, debates, speakers, fieldwork, research projects and lab activities will actively engage students in their learning. This course is open to eleventh and twelfth grade students at the College Prep level.

Prerequisites: passed Physics (or concurrently enrolled)

THE SENIOR ZOOLOGY ELECTIVE (323 H)

2.5 Credits

The Zoology Elective is a biology based elective open to a maximum of eight NHS seniors per year. This course allows students to be a part of a program whose goal is to increase the numbers of a local endangered/threatened species: the northern red bellied cooter turtle. The course will focus on husbandry for the turtles/hatchlings, water quality analysis, nutritional analysis, keeping a lab notebook, and other factors involved in caring for the turtles.

Acceptance into this course is competitive, and completing the prerequisites does not guarantee acceptance into this course.

Prerequisite: Physics or concurrent enrollment and interview with the Science/Technology Department Chair

TECHNOLOGY EDUCATION

Technology Education is the hands-on application of science and mathematics through the safe use of tools, materials and processes focusing on project based assessments. The "Design Process" and its related critical thinking skills are incorporated into many lab/shop activities. State law requires that approved eye protection be worn when working in the laboratory/shop areas.

REQUIREMENTS

Several of our technology education courses require the application of a rich amount of mathematical skills. Therefore, with the approval of the principal, an appropriate technology education course will fulfill the state math graduation requirement for students who have scored needs improvement on the Mathematics MCAS test.

INTRODUCTION TO ENGINEERING (758C)

2.5 Credits

Introduction to Engineering is a full year survey course that introduces students to topics related to technology and engineering: design process, drafting, CAD, construction and

manufacturing technologies, electricity, alternate energy technologies, and introductory computer programming. State content standards in technology and engineering will be reinforced in a project based classroom/lab that emphasizes student preparation for future technology/engineering courses: CAD, Engineering or Robotics. There will be additional academic expectations for college prep courses.

Prerequisite: passed eighth grade

INTRODUCTION TO TRANSPORTATION TECHNOLOGY (740C)

2.5 Credits

Transportation Technology introduces students to the topics related to the Transportation strand of the Massachusetts Science and Technology/Engineering Curriculum Framework. Topics covered include the theory and operation of the following systems: automotive gasoline engines, diesel engines, hydraulic systems and construction equipment, small engines, automotive steering and suspension systems, automotive braking systems and automotive electrical systems. Emphasis will be placed on diagnosing and repairing these systems in a project based/lab setting. This course also serves as a preparatory course for other Tech Ed. courses such as Engineering, Robotics, Manufacturing and Design with CAD etc.

Pre-requisites: Students may take in conjunction with, or after, Intro to Engineering I or with teacher/counselor approval.

PRINCIPLES OF COMPUTER SCIENCE (240C)

2.5 Credits

Introduction to Computer Science will present students with methods to solve problems using computers with emphasis on the engineering design process. Basic concepts of hardware and computer design will be covered, along with commenting, encapsulation, and computational thinking. The course will also include a practical introduction to programming, comparing and contrasting two popular languages. This course also serves as a preparatory course for other Tech Ed. courses such as Intermediate Computer Science, Engineering, Robotics, Manufacturing and Design with CAD, etc.

ENGINEERING 1 (755C) (7550H)

5 Credits

This full-year course will combine technology, engineering, and mathematics standards into an engineering capstone project very similar to the Mars Pathfinder Rover Project. In completing this capstone project, students will study and apply concepts in a number of disciplines: science, technology, engineering, and mathematics. Science topics include motion, gravity, speed of light, and electrical and mechanical energy. Technology and engineering topics covered are the design process, design implementation, operation systems, invention, innovation, control systems, basic and advanced electronics; and principles of machining. Mathematics topics that are introduced and reinforced include percentages, ratios; problem solving, and geometric relationships. The course focus is that of real-life applications for science, technology, engineering, and math. Smaller student projects during the course may include robotic arms and mars pathfinder rovers. There will be significantly higher academic expectations of students in honors level

courses.

Prerequisite: Intro. to Engineering (740) or Intro Transportation Tech. (240) and Physical Science, or teacher recommendation.

ROBOTICS (757C, 7570H)

5 credits

The Robotics course covers the practice, technique, and theory behind mobile robotic systems. Topics in the first half of the year include simple robotic designs, sensors, motors, gears, feedback control systems, and cybernetics. Advanced sensing techniques, microprocessors, construction techniques, serial communications, and data collection, will be covered in third and fourth terms. Each student will design and create a robot that makes everyday tasks easier for an individual with physical disabilities. There will be significantly higher academic expectations of students in honors level courses.

Prerequisites: passed engineering or physics

ROBOTICS II (7600C, 7601H)

5 credits

The Robotics II course is the third course in the Engineering and Robotics sequence. Robotics II will provide students with the opportunity to further explore Engineering and Robotics topics, with a particular focus in project based learning. Advanced programming techniques, energy conversion systems, and closed loop feedback controls will be the primary areas of emphasis within this course. There will be significantly higher academic expectations for honors level courses.

Prerequisite: passed Robotics

PRINCIPLES OF COMPUTER SCIENCE II (265H)

5 credits

This course is an introduction to computer programming. The class will introduce variables, operations, and data structures using Python. Basic concepts of operating systems, interfacing with networks, and internal workings of computers will also be covered. Students will develop skills, confidence, and experience writing programs in order to accomplish useful tasks. The course will prepare students for AP Computer Science.

Prerequisites: Introduction to Computer Science OR Geometry AND Instructor Permission

Manufacturing and Construction Design with CAD I (761C)

5 credits

The course is designed to acquaint students with basic skills for a variety of computer aided drafting software, such as but not limited to Autodesk Inventor and Revit. The primary focus is on two-dimensional multi-view drawings, using computers. Technical drawing skills are also included. Some drawing skills that the students will apply are

geometric constructions, interior details, dimensioning, auxiliary views, and model rendering. Student drawing assignments and engineering design problem projects are related to manufacturing and construction technologies. The course is intended for students with engineering, architecture, or technical career interests. The course also provides excellent background for the other Technology Education elective.

Prerequisite: Intro. to Engineering (740) or Intro Transportation Tech. (240) and Physical Science, or teacher recommendation.

Manufacturing and Construction Design with CAD II (762C)

5 credits

The course is designed to expand student skills for a variety of computer aided drafting software, such as but not limited to Autodesk Inventor and Revit. Design problem solving skills and drafting techniques learned in CAD I will be reinforced. Emphasis is placed on the engineering design process and related problem solving projects on manufacturing or architectural technology (two and three dimensional drawing and 3-D models). The course is intended for students with engineering, architecture, or technical career interests.

Prerequisite: passed Manufacturing and Construction Design with CAD I (761C)

THE SENIOR TECHNOLOGY SERVICE ELECTIVE (751H)

5 Credits

The Senior Technology Service Elective is a Technology-based elective open to a maximum of eight NHS seniors per year. This course allows students to experience what it is like to troubleshoot end user-based technology problems on a daily basis. Topics to be covered include customer service, root cause identification, IP networking and troubleshooting, software installation and testing. The students will troubleshoot and repair a wide range of IP-based devices on a daily basis in this course. **Acceptance into this course is competitive, and completing the prerequisites does not guarantee acceptance into this course.**

Prerequisite: Engineering, and Honors Robotics

AP COMPUTER SCIENCE (260AP)

5 Credits

The major emphasis of AP Computer Science is on programming methodology, algorithms, and data structures. Applications of computing provide the context in which these subjects are used to develop student awareness of the need for particular algorithms and data structures, as well as to provide topics for programming assignments. An appropriate computer language provides the vehicle for implementing computer-based solutions to particular problems. Treatments of computer systems and the social implications of computing are integrated into the course.

Prerequisite: Intermediate Computer Science OR Robotics 1-Honors (757) OR Algebra 2 AND Instructor Permission

HISTORY / SOCIAL STUDIES DEPARTMENT

The Norwood High School History and Social Studies Department is committed to ensuring that every student leaves Norwood High School with a thorough understanding of World and US History as well as a personal commitment to Civic Engagement. The required three year sequence includes World History and Cultures II, US History I, and US History II. Students are highly encouraged to complete a fourth year of History/Social Studies by participating in one of our elective courses during their junior and/or senior year.

The Social Studies Department offers courses at several levels. Performance expectations for students at those levels include:

College Prep: Students will perform...

- Guided primary source analysis
- Guided and independent research
- Short and long-term writing assignments
- Collaborative and independent projects/assignments/assessments

Honors: Students will perform...

- Independent primary source analysis and application
- Independent research
- Short and long-term writing assignments
- Collaborative and independent projects/assignments/assessments

Pre-AP & AP: Students will perform...

- Independent primary source analysis and application
- Independent research and study preparation
- Short and long-term writing assignments
- Written and oral communication of well-supported arguments
- Preparation for the College Board AP Exam

WORLD HISTORY AND CULTURES II- HONORS/COLLEGE (420H, 421C)

5 Credits

This course continues where the World History I curriculum left off. It examines World History from the Renaissance through the Globalization of the 20th century.. The course focuses on political, religious, intellectual, military, economic and social changes taking place throughout the world. Topics explored include developments in liberalism and

nationalism, the rise of revolutions, industrialization, imperialism, and the impact of the world wars. By examining these historical events, students will have a better understanding of the contemporary world.

CRIMINAL JUSTICE --HONORS/COLLEGE (428H/427C)

5 Credits

This course is a full year elective for junior and senior students only who want to learn more about the American legal system, the criminal justice system, constitutional law, and civil law. The objective of the course is to prepare students to become more civically engaged. At the Honors level, students must be independently motivated, and will be expected to engage in more intensive reading and writing.

US HISTORY I (HONORS/COLLEGE 470H, 471C)

5 Credits

This course will cover United States history from its pre-colonial period through the post-Civil War Era (approximately 1491-1900). It covers all major aspects of American history during that period including: political, diplomatic, intellectual, cultural, economic and social. In addition, the course deals extensively with learning how to read, understand, analyze and interpret a wide variety of both primary and secondary texts together with the maps, graphs and pictorial materials associated with them. The course also aims to help students to put the knowledge and understanding they are gaining into practice through sharpening their oral and written communication skills. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. Honors students will be taught at the pre-AP level and encouraged to move on to the AP level Junior year.

Prerequisite: Participation is dependent on the recommendation of the teacher and successful completion of World History and Cultures II

US HISTORY II (AP/HONORS/COLLEGE - 440AP, 430H, 431C)

5 Credits

U.S. History II is the second course in a two-year sequence of American history, covering events from 1900 to the present. The course emphasizes cause and effect relationships of history. Interpretation of historical events is stressed. Through class discussion, written work, and primary source analysis students will strengthen their critical thinking and analytical skills.

Prerequisite: Participation is dependent on the successful completion of United States History I.

HONORS CIVICS, CITIZENSHIP, AND THE CONSTITUTION (484H)

5 Credits

This course is a full-year Honors course offered to seniors through an application process at the end of junior year. The course is split into two major components. In the first half of the year, students study the US government with a focus on the essential principles of American constitutional democracy. The curriculum in the first half of the year follows

the *We the People* textbook and program. In the second half of the year, students will complete service learning projects with local government agencies and organizations. Students will regularly leave campus during the school day to work on these activities. In order to qualify for this course, students must have at least an 80 average in United States History II. Students must complete a written application at the end of junior year. A maximum of 24 students will be accepted for this course. Parental/guardian permission is also required to take this course since students will be leaving campus as part of the course requirement.

Prerequisite: completed application, an 80 average in US History II, parental/guardian consent

SOCIOLOGY (435H/433C)

5 Credits

This full year course, open to juniors and seniors, focuses on the study of society, social institutions, and social relationships. A goal of the course is to make students aware of how sociology applies to many areas of life and how it can be used in day-to-day activities. Emphasis is placed on sociological methodology, culture, values, norms, group behavior, family, primary and adult socialization. The study of adolescents, deviance, gender and race will allow students to explore the many areas of sociology. Students selecting this course for honors credit will be required to take more extensive written exams and do an additional project commensurate with the awarding of honors credit by the instructor.

PSYCHOLOGY (436H/434C)

5 Credits

This full year course, open to juniors and seniors, focuses on various aspects of human behavior. Emphasis will be on student preparation for difficult decision-making that will take place during their lives. The study of the science of psychology, the aspects of research, the human brain, sensation and perception, consciousness and abnormal psychology will allow students to explore the many areas of Psychology. Research into the different schools of psychology including behaviorism, psychoanalysis and humanism will provide theories and analysis to help in understanding human behavior. The Psychology Honors Level course in addition to the Psychology curriculum will include:

- a six page research paper
- additional and more challenging essays on exams
- additional analysis of work done by the class.

Note: Students who opt for the C/H elective may not sign up for the AP Psychology elective the following year because important aspects of the course and material are very similar in both cases.

AP PSYCHOLOGY (4360AP)

5 Credits

This course, open to Juniors and Seniors, will give you a detailed overview of

psychological science, with particular emphasis on certain areas, and aim to prepare you for the advanced placement exam in the spring. Major themes/topics include the history of psychology and its various subdivisions, schools of thought and theorists, the scientific basis of psychology, the nature/nurture debate, the influence of anatomy and genetics on behavior, cognitive function, human development and the development of language, intelligence and personality, disorders and treatment, and how psychology explains and predicts social interaction. The fast pace of the course requires self-motivated, independent learners who possess well-developed academic skills and are committed to producing high quality, AP-level work.

Economics (Honors/College 456H/455C)

5 Credits

Economics is a full year elective open to seniors. This course provides students with an introduction to microeconomic and macroeconomic concepts including economic reasoning, supply and demand, fiscal and monetary policies, and international trade. There will also be a focus on developing personal finance skills. This course is strongly recommended for those students considering a college major in business, finance, or economics, as well as students with a general interest in better understanding the economy in which they live.

AP Economics (454AP)

5 credits

A.P. Economics is a university level, full year course open to seniors. This course is designed to provide students with a thorough understanding of the principles of economics. A.P. Economics will emphasize the study of national income, economic performance measures, economic growth and international economics. This course is strongly recommended for those students considering a college major in business, finance, or economics, as well as students with a general interest in better understanding the economy in which they live.

CONTEMPORARY PROBLEMS (452-CP)

5 Credits

This course is offered as a full-year course to seniors. It is designed for students who desire a practical rather than an academic interpretation of world affairs. This study in contemporary affairs will endeavor to investigate many of the social, political, and economic problems which confront our society today. Emphasis will be placed on current events. The reading of newspapers, magazines, and periodicals will be encouraged.

AP EUROPEAN HISTORY (450AP)

5 Credits

The Advanced Placement Course in European History is a full year course which is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in European History. The program, which covers the period from the high Renaissance (1450) to the present, prepares students for

intermediate and advanced college courses by making demands on them equivalent to those of full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance – and to weigh the evidence and interpretations presented in historical scholarship. This course should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Significant emphasis is given to questions in intellectual, cultural, and social-economic history, as well as to those in the more traditional political-diplomatic sphere. Students electing Advanced Placement European History should be reasonably qualified but, more important, they should be highly motivated. All students are strongly encouraged to take the Advanced Placement Test in European History in May.

Prerequisite: Participation is dependent on the recommendation of the teacher.

WORLD SAVVY CURRENT EVENTS (Grade 9/10/11 Elective) (017C)

2.5 Credits

This course is a minor elective intended for students in grades 9-11. Major units of study include contemporary domestic and international social issues, and the importance of civic engagement. Through coursework and project-based learning, students will acquire tools to help them in becoming informed and engaged global citizens. Students are expected to work both collaboratively and independently to develop strong critical thinking and reasoning skills as they apply to investigating and addressing contemporary political and social issues.

AP WORLD HISTORY (424)

5 CREDITS

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions, and organization, and technology and innovation.

PREREQUISITES: Students must have taken and passed ninth grade world history and/or receive teacher recommendation into the course. This course is open to students in grades 9-12.

US GOVERNMENT (460H/458C):

2.5 Credits

This grade 9-12, 2.5 credit elective is a thought-provoking exploration of American Government and Politics. We will cover such topics as the Constitution, civil rights, interest groups, politics, voting, Congress, the Presidency, the Judiciary, laws, public policies, state & local government, and current events.

AP® African American Studies (Grades 10-12) (487)

5 credits

An exciting, interdisciplinary course that draws from a variety of fields—history, literature, the arts, geography, science, and law—to explore the vital contributions and experiences of African Americans. In AP African American Studies, students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American Studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora. The course provides students with a strong foundation in facts and evidence about African American history and culture, offering an immersive survey course that is not currently available in most American high schools

For the 2024-2025 school year, this course *may* be offered in an independent study format dependent on enrollment.

AP CAPSTONE

AP Capstone™ is a diploma program from the College Board. It's based on two year-long AP courses: AP Seminar and AP Research. Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world. Students can earn the AP Capstone Diploma™ or the AP Seminar and Research Certificate™. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™.

Note: AP Capstone is an *application-based* program. Students who are interested should contact their NHS Guidance Counselor for further information. This program is generally capped at 20 students. Applications are reviewed by the Academic Credentials Committee.

AP SEMINAR (Grade 9, Embedded in World History Honors) (419)

5 credits

This course will equip students with the skills to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. Students will have the opportunity to explore real-world issues from multiple perspectives and consider varied points of view to develop a deep understanding of complex issues and topics in order to make connections between these issues and everyday life. Students will gain a rich appreciation and understanding of issues by reading articles, listening to speeches or broadcasts, and experiencing artistic and literary

works.

The primary goals of the AP Seminar course are to help students understand how to study an issue from multiple perspectives, evaluate source information, and then develop and communicate effectively a logical, evidence-based point of view. Students will practice and apply these skills through the exploration of the complex topics and by examining a variety of and often divergent or competing perspectives. This course will be taught *within* the students' Modern World History experience in Grade 9. Students who successfully complete AP Seminar will move on to AP Research in Grade 10 and will be eligible for an AP Capstone designation on their transcript and also eligible to pursue an AP Diploma (successful completion of AP Capstone and 4 Additional AP Courses).

In order to provide students the opportunity to take electives at NHS, students who enroll in this course, for the 2024-2025 school year will be expected to complete independent work in an online Learning Management System in order to complete their Modern World History requirement and fulfill the expectations of AP Capstone. Students will sign an agreement upon enrolling indicating their understanding of this additional work component.

AP RESEARCH (Grade 10, Embedded in US History I Course) (418)

5 credits

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Note: AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all its required assessment components is necessary for students to develop the skills to be successful in AP Research. This course will be taught *within* the students' US History I experience in Grade 10. Students who successfully complete AP Research will be eligible for an AP Capstone designation on their transcript and also eligible to pursue an AP Diploma (successful completion of AP Capstone and 4 Additional AP Courses).

In order to provide students the opportunity to take electives at NHS, students who enroll in this course, for the 2024-2025 school year will be expected to complete independent work in an online Learning Management System in order to complete their Modern World History requirement and fulfill the expectations of AP Capstone. Students will sign

an agreement upon enrolling indicating their understanding of this additional work component.

FINE ARTS DEPARTMENT

VISUAL ARTS

The Visual Arts Department offers three different paths of study. One is a sequential study of Drawing and Painting, 2D Digital Design, or 3D Design. For freshman and sophomores, we offer two minor courses, Introduction to Art and Studio Art II. Then, there is Photography for juniors and seniors who are interested in an exciting year-long study of art. All courses are dedicated to teaching students how to communicate visually and how to decode their rich visual culture. All courses follow the appropriate Massachusetts State Standards as well as the National Standards.

The Visual Arts Department offers sequential programs for the study of Drawing and Painting, 2D Digital Design (Computer Arts), and 3D Design (Sculpture). All students interested in pursuing one of these disciplines must take Foundations of Art Making. Foundations of Art Making or Introduction to Art is the prerequisite to all upper level courses, including AP Studio Art.

Introduction to Art (805C)

2.5 Credits

This course introduces students to the fundamentals of art making and design. This course is designed to meet the needs of students of all abilities and experience levels. Students will use a variety of materials such as acrylic paint, clay, Adobe Creative Cloud, etc to learn about the Elements of Art and Principles of Design. The emphasis of this course is art making and skill development. This course aligns the Portrait of the Graduate by focusing on creativity, critical thinking, collaboration and communication. This course is required to take any second level Drawing and Painting, 2D Digital Design or 3D Design courses. This course aligns with the Massachusetts State Curriculum Frameworks for Foundation study in Visual Arts.

FOUNDATIONS OF ART MAKING (804C) (8040 H)

5 Credits

This course introduces students to the fundamentals of art making and design. This course is designed to meet the needs of students of all ability and experience levels. Students study the following disciplines: drawing, painting, digital 2D design (computer graphics), and 3D design (sculpture). The Elements of Art and the Principles of Design will be studied in depth. Students will learn vital drawing skills, the fundamentals of color theory, painting techniques, how to manipulate three dimensional space, as well as essential skills in Adobe's Creative Suite. Students will use a variety of materials, including charcoal, acrylic paint, clay, Adobe's Photoshop, etc. This course is designed for students who have an interest in art, whether it may be to pursue a career in the vast

field of visual arts or as a personal passion/interest, or just want to learn. The emphasis of this course is skill development. This course is required to take any second level Drawing and Painting, 2D Digital Design or 3D Design courses. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system. This course aligns with the Massachusetts State Curriculum Frameworks for Extended study in Visual Arts.

Prerequisite: Freshman and Sophomores Only. For Honors, students must receive a B+ or higher in 8th grade Art or teacher recommendation

ARTMAKING FROM A GLOBAL PERSPECTIVE (8495)

2.5 Credits

This course incorporates language acquisition into art making. Students will have the opportunity to improve their artistic skills while learning vocabulary from a variety of different languages. The art making will focus on different artistic traditions from around the world and throughout history. Students from all language backgrounds are encouraged to take this course. The course is designed to help all students learn about art and different languages.

INTRODUCTION TO ANIMATION (8495C)

2.5 Credits

Students will explore animation in its various forms from computer based animation to physical manipulation of objects in stop motion. Students will create animations for various purposes from personal storytelling to informational to political/social. The emphasis of the course will be to learn various techniques of animation. The basics of storytelling and design will be taught to enhance students' understanding of animation. This course is open to Sophomore, Juniors, and Seniors.

INTRODUCTION TO PHOTOGRAPHY (8494C)

2.5 Credits

The basics of digital photography will be taught from composing to editing images. Students are required to take photographs outside of class. Emphasis will be placed on creating photographs that explore the principles of 2-D design. Students will create photos for various purposes including but not limited to: documentation, portraiture, narrative, political/social, and personal/familial. This course is open to Sophomores, Juniors and Seniors.

Studio Art II (807C)

2.5 Credits

This course extends a student's learning from Foundations of Art Making or Introduction to Art. Studio Art II uses a thematic and design challenge approach to art making. Students will work with a variety of themes such as: identity, anthropocene (humans & nature), community, and power. Students will use a variety of different media (Adobe Creative Cloud, mixed media, acrylic paint, etc). This course will have at least one

Project Based Learning opportunity. This course aligns the Portrait of the Graduate by focusing on creativity, critical thinking, collaboration, citizenship and communication. This course aligns with the Massachusetts State Curriculum Frameworks for Foundation study in Visual Arts.

Prerequisite: Foundations of Art Making or Introduction to Art

DRAWING AND PAINTING II (820C, 821H)

5 credits

This course extends and deepens the study of drawing and painting. This course will connect two-dimensional media with more advanced experiences in observational drawing, painting, and printmaking. The acquisition of an intermediate level of drawing skills is stressed. Students will study art history and be encouraged to develop artistic themes of personal interest. Color theory will be examined in relation to its visual effect. Expansion of critique skills and aesthetics will be developed. Students taking this course at the honors level must apply advanced artistic thinking and skills, work independently, and express themselves through both imagery and written work. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system. This course aligns with the Massachusetts State Curriculum Frameworks for Extended study in Visual Arts.

Prerequisite: For Drawing and Painting IIC- passed Foundations of Art Making/Drawing

For Drawing and Painting IIIH- passed Foundations of Art

Making/Drawing with at least a B+ or teacher recommendation.

2D DIGITAL DESIGN II (8479C, 8470H)

5 Credits

Digital Design II continues the study of digital design begun in Foundations of Art Making. This course is designed for students who want to create pixel and vector based graphics using the programs in Adobe Creative Suite, the standard for digital designers. Using Photoshop and the Wacom Intuos 4 tablet and pen, students learn the skills, techniques and shortcuts to be able to create drawings, paintings, photomontages and composite images to be used for print and on screen. In Illustrator, students create sophisticated vector based images. Students also learn to respect the rights of designers to protect their images on the Internet. This course aligns with the Massachusetts State Curriculum Frameworks for Extended study in Visual Arts. Students taking this course at the honors level must apply advanced artistic thinking and skills, work independently, and express themselves through both imagery and written work. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For 2D Digital Design IIC- passed Foundations of Art Making

For 2D Digital Design IIIH- passed Foundations of Art Making
with at least a B+ or teacher recommendations

3D DESIGN II (8229C, 82290H)

5 credits

This course extends and deepens the study of sculptural design. This course will connect three-dimensional media with more advanced experiences in clay, plaster, assemblage and other forms of sculpture. The acquisition of an intermediate level of 3 dimensional design skills is stressed. Students will develop their ability to form artwork that communicates intentional content and meaning. Students will continue to work on techniques with familiar materials and will be introduced to new materials (plaster, mold making, found objects, wire and wood). Color theory will be examined in relation to its visual effect. Expansion of critique skills and aesthetics will be developed. This course aligns with the Massachusetts State Curriculum Frameworks for Extended study in Visual Arts. Students taking this course at the honors level must apply advanced artistic thinking and skills, work independently, and express themselves through both imagery and written work. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For 3D Design IIC- passed Foundations of Art Making
For 3D Design IIH- passed Foundations of Art Making
with at least an B+ or teacher recommendation.

DRAWING AND PAINTING III (830C, 831H)

5 credits

This course continues a student's study of drawing and painting with emphasis on skill development and developing a student's visual voice. Observational drawing, acrylics, watercolor, and printmaking will be some of the areas covered in depth as they relate to principles of design. Students will be encouraged to set individual goals, work independently, do original research on selected themes, and learn how to evaluate works of art critically. Thematic topics and visual intention will be explored and developed. The history of art will be studied throughout the year. Expansion of critique skills and aesthetics will be developed. Students taking this course at the honors level must apply advanced artistic thinking and skills, work independently, and express themselves both through imagery and written work. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For Drawing and Painting IIIH- passed Drawing and Painting II C with at least a B+ or passed Drawing and Painting IIIH with at least a B- or teacher recommendation.

2D DIGITAL DESIGN III (8479C, 8480H)

5 Credits

The purpose of 2D Design III is for students to develop their personal style and visual voice using all the tools in Adobe Creative Suite. Students will learn to set individual goals, work independently, do original research on selected themes, and learn how to evaluate works of art, including their own work, critically. Flexibility of skill, style and artistic thinking will be emphasized. Students will integrate their technical skills with critical and creative problem solving to produce works with purposeful meaning. Observational, functional and abstraction will be some of the areas covered in depth as they relate to principles of design. Thematic topics and visual intention will be explored and developed. The history of art will be studied throughout the year. Aesthetics

concerns will be investigated and applied. This course aligns with the Massachusetts State Curriculum Frameworks for Extended study in Visual Arts. Students taking this course at the honors level must apply advanced artistic thinking and skills, work independently, and express themselves through both imagery and written work. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For 2D Digital Design IIIC- passed 2D Digital Design II

For 2D Digital Design IIH- passed 2D Digital Design II C with at least a B+ or passed 2D Digital Design IIH with at least a B- or teacher recommendation

3D DESIGN III (8329C, 8328H)

5 Credits

The purpose of 3 Dimensional Design III is for students to develop their personal style and visual voice. Students will learn to set individual goals, work independently, do original research on selected themes, and learn how to evaluate works of art, including their own work, critically. Flexibility of skill, style and artistic thinking will be emphasized. Students will integrate their technical skills with critical and creative problem solving to produce works with purposeful meaning. Observational, functional and abstraction will be some of the areas covered in depth as they relate to principles of design. Thematic topics and visual intention will be explored and developed. The history of art will be studied throughout the year. Aesthetics concerns will be investigated and applied. This course aligns with the Massachusetts State Curriculum Frameworks for Extended study in Visual Arts. Students taking this course at the honors level must apply advanced artistic thinking and skills, work independently, and express themselves through both imagery and written work. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For 3D Design IIIC- passed 3D Design II

For 3D Design IIH- passed 3D Design II C with at least a B+ or passed 3D Design IIH with at least a B- or teacher recommendation

DRAWING AND PAINTING IV (838C, 839H)

5 Credits

This course extends the students' study of drawing and painting to an advanced level. Students will spend the year developing artwork around a theme of their choosing. Students will integrate their understanding of Art History into their art-making. Students will be expected to work independently, and integrate research, creative thinking, self-reflection and intention into their artwork. Expansion of critique skills and aesthetics will be developed. Students taking the course at the honors level must apply advanced artistic thinking and skills, work independently and express themselves through both imagery and written presentation. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For Drawing and Painting IVH- passed Drawing and Painting IIIC with at least a B+ or passed Drawing and Painting IIH with at least a B- or teacher recommendation.

2D DIGITAL DESIGN IV (84910C, 84911H)

5 Credits

This course extends the study of 2D Design to an advanced level. There is a strong emphasis on developing independent creative problem solving skills. Students will develop a theme and create artwork around their theme. The goal of this course is for students to understand and be able to apply design elements and principles to their own unique personal concepts and creative thoughts. Students will be expected to work independently, conduct research and critically investigate 2-D design through their own work, in writing and during critiques. Students taking the course at the honors level must apply advanced artistic thinking and skills, work independently and express themselves through both imagery and written presentation. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For 2D Digital Design IVH- passed 2D Digital Design III C with at least a B+ or passed 2D Digital Design III H with at least a B- or teacher recommendation.

3D DESIGN IV (8411C, 8412H)

5 Credits

This course extends the study of sculpture at an advanced level. There is a strong emphasis on developing independent creative problem solving skills. Students will develop a body of work that is an in-depth exploration of a student selected theme. This portfolio will be a reflection of the students' understanding of the Elements of Art and the Principles of 3-D Design. Students will be expected to work independently, conduct research and critically investigate 3-D design through their own work, in writing and during critiques. Students taking the course at the honors level must apply advanced artistic thinking and skills, work independently and express themselves through both imagery and written presentation. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For 3D Design IVH- passed 3D Design III C with at least a B+ or passed 3D Design IIIH with at least a B- or teacher recommendation.

AP STUDIO ART: DRAWING (842 AP)

AP STUDIO ART: 2D DESIGN (843AP)

AP STUDIO ART: 3D DESIGN (841AP)

AP Studio Art: Photography (8431 AP)

5 credits

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. There are two sections to the AP Portfolio: Selected Works and Sustained Investigation. The portfolio requires the student to show a fundamental competence and range of understanding of visual concerns (and methods). The Sustained Investigation section requires the student to demonstrate a depth of investigation and process of discovery (15 pieces are required). The Selected Works section (5 pieces are required) permits the student to select the works that best exhibit a synthesis of form, technique and content. The class is designed to

replicate a semester of an intensive college level studio course. The course requires students to be highly motivated, self-disciplined, and a dedication to craftsmanship. (Adapted from; <http://apcentral.collegeboard.com/apc/public/repository/ap-studio-art-course-description.pdf>)

Prerequisite: Passed level III studio art course with a B or better and/or recommendation of teacher

ADVANCED PHOTOGRAPHY (8432H 84320C)

5 CREDITS

This course extends the study of photography at an advanced level. There is a strong emphasis on developing independent creative problem solving skills. Students will spend the first half of the course creating a body of assignment-based work that helps them integrate technical skills, visual voice and critical thinking. For the second half of the course, students will create a portfolio of work that is an in-depth exploration of a student selected theme. This portfolio will be a reflection of the students' understanding of the Elements of Art and the Principles of Design. Students will be expected to work independently, conduct research and critically investigate photography through their own work, in writing and during critiques. For homework, students are expected to take photographs, complete research, reflect on their work as well as complete assignments. Students taking the course at the honors level must apply advanced artistic thinking and skills, work independently and express themselves through both imagery and written presentation. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: For Adv. Photography C-Passed Photography

For Adv Photography H- passed Photography C with at least a B+ or passed Photography Honors with at least a B- or teacher recommendation. With instructor and Department Chair approval.

WEB DESIGN (84920 H) (84921 C)

5 Credits

This introductory web design course is designed to give students experience working with the elements and principles of design and apply those principles to web page creation. Students will develop Internet research techniques; acquire navigation mapping skills; effectively use a Web site; examine related social, legal and ethical issues; and integrate the elements of Web Design. Class activities are project-based and give students an opportunity to practice art fundamentals while learning technical skills including Hyper Text Markup Language (HTML) coding and Adobe software applications. Through class activities, students will explore related careers, assume leadership roles and practice skills. The honors course is differentiated from the college course in the amount of work, the level of expectation, and the grading system.

Prerequisite: Juniors and Seniors Only

For Honors, students must be in good academic standing with a GPA of 3.0 or permission for the teacher.

COOPERATIVE ARTISTS (8499H, 8498C)

2.5 Credits

This course is an opportunity for students of varying abilities levels to come together through art making. Students with and without disabilities will work together on equal terms to develop their fine and gross motor skills in relation to visual problem solving and artistic thinking. Students will focus on making art in a variety of media, tools and techniques. For students who elect the honors or college level, students at the college and honors level will be expected to write weekly journal entries about their process, receive regular reading assignments and maintain a response journal as well as complete independent research. Students interested in a career in special education, art education, or art therapy would greatly benefit from this course.

MUSIC

Whether a beginner interested in trying a new instrument or technique, a devoted listener, or an experienced musician, the NHS music department offers many opportunities for students interested in creating, performing or appreciating a variety of musical styles. All courses align with 2019 MA Arts Curriculum Frameworks. Ensemble students interested in improving their skills are encouraged to enroll in private lessons. If you would like private lessons but are in need of financial assistance, please reach out to Mr. Kerr, the Director of Fine Arts, for more information.

UKE JAM (956C)

2.5 Credits

Traditionally associated with Hawaiian music, the ukulele has become a popular instrument because of its versatility, small size and ease of learning. In this elective, students will learn to play the ukulele and experience a variety of musical styles, such as folk, pop, and country music. Personal musicianship skills developed will include music literacy, basic music theory, strumming patterns, ear training, and improvisation. Grades 9-12. Students do not need to own a ukulele; instruments will be made available through the music department.

GUITAR (9511C)

2.5 Credits

Whether a beginner or experienced player, this elective is designed for those students interested in playing the guitar. Students will learn to play a variety of musical styles, such as folk, rock, blues, jazz, and country. Personal musicianship skills developed will include right and left hand playing techniques, ear training, improvisation, music literacy, and basic music theory. Grades 9-12. Students do not need to own a guitar: instruments will be made available through the music department.

LEARN TO JAM (986)

2.5 Credits

This class is open for any student looking to play music with no musical experience up through intermediate experience. In this class, students will learn how to play multiple

instruments. Students will learn the fundamentals of music through performing with others. Units will include but are not limited to: Three or Four-Chord Songs, Bucket Drumming, Boom-Whacker Band, and Rock/Pop Covers. Students should expect to participate every day in a safe environment without expectations of performing a concert.

MODERN BAND (987)

2.5 Credits

This class is open to students by nomination of teacher with previous experience in NHS musical ensembles, guitar classes, or adequate musical experiences outside of NHS. Students will explore the music they know and love in a Modern Band / Rock Band setting. Students may be asked to try other instruments and or sing as we develop a repertoire of songs to play throughout the year. We will explore but are not limited to the following styles: Rock, R+B, Blues, Fusion, Alternative, and other more modern styles of music. Students should be prepared to spend some class time learning their parts as well as playing together as an ensemble.

Fundamentals of Singing (983)

2.5 Credits

This elective is designed for students who want to learn and/or improve their personal singing voice. Instruction will address tone production, posture, breathing technique, range extension, resonance, and intonation. Students will have opportunities to sing in a variety of styles, such as folk, jazz, pop, and musical theater, both individually and with others. Grades 9-12.

MUSIC PRODUCTION AND ENGINEERING (967C)

2.5 Credits

This elective course is designed for those students interested in creating music using computer technology. Students will utilize a variety of software to compose, sequence, edit and arrange music and create soundtracks for advertising, video games, television or film.-Current or previous study of an instrument is not required.

JAZZ IMPROVISATION (956)

2.5 Credits

This elective offers an opportunity to study jazz with an emphasis on developing and improving personal improvisational skills. Students will listen and analyze a wide variety of jazz repertoire and study scales, modes, form, style, and ear training. Current or previous study of an instrument or voice is strongly encouraged. Grades 9-12.

THE HISTORY OF ROCK AND ROLL (9510C)

2.5 Credits

Beginning with the study of African-American musical styles that led to the creation of rock and roll, students will listen and analyze the development of rock styles from the early blues-based rock and roll of the 1950s and the British Invasion of the 1960s, through Folk Rock, Heavy Metal, Punk and New Wave, and other styles of the late 20th century to the contemporary music of today.

Music in Television, Radio, Film, & Multimedia (9517C)

2.5 credits

This course is designed for students interested in exploring the psychology of music and how it shapes our thoughts and emotions. Students will discover specific ways in which music can be used as an influential tool through various media, as well as determine why some music fits certain situations where other music does not. Film concepts will include examples of soundtracks, underscoring, and source music. Students will also investigate what makes a catchy jingle in advertising, as well as the composition of memorable television themes. Through this work students will develop skills in critical thinking, collaboration, creativity, and innovation, information and media literacy, and contextual learning. Grades 9-12.

MUSIC THEORY (9520C)

2.5 Credits

This course is designed for those students interested in learning about the structure of music. Concepts studied will include rhythmic notation, melodic notation in multiple clefs, scales, intervals, triads, voice leading, harmonic analysis, composition and ear training. In addition students will learn to use music notation software. Current or previous study of an instrument or voice is strongly encouraged.

AP MUSIC THEORY (982AP)

5 Credits

This course is an advanced study of the structure of music, including rhythmic notation, melodic notation in multiple clefs, scales, intervals, triads, voice leading, harmonic analysis, and composition. In addition students will be trained in ear training, sight-singing, and melodic dictation. Current or previous study of an instrument or voice is strongly encouraged. Successful completion of this course will prepare students to take the Advanced Placement exam in Music Theory.

Prerequisite: successful completion of Music Theory or teacher recommendation

CONCERT CHORALE (9550C, 955H)

5 Credits (955H), 2.5 Credits (9550C)

The Concert Chorale is a mixed (SATB) vocal ensemble that performs a wide variety of choral repertoire and may be elected as either a major or minor. Personal musicianship skills developed through participation in this ensemble include intermediate to advanced singing techniques, music literacy, music theory, ear training, and performance experience. Ensemble skills that are developed include awareness of and sensitivity to ensemble tone quality, blend, balance, intonation, articulation, phrasing, dynamics, and style. **This class will require participation in rehearsals and performances both during and after school.**

MADRIGAL CHOIR (960H)

5 Credits

The Madrigal Choir is a highly advanced vocal ensemble specializing in a cappella

literature from the Renaissance period. Personal musicianship skills developed through participation in this ensemble include advanced singing techniques, music literacy, music theory, ear training, and performance experience. Ensemble skills that are developed include awareness of and sensitivity to ensemble tone quality, blend, balance, intonation, articulation, phrasing, dynamics, and style. This class will require participation in rehearsals and performances both during and after school. Participation in the Madrigal Choir is determined by audition and recommendation of the Choral Director. Students selected for participation in this course will perform in a minimum of one class recital.

CONCERT BAND (9770C, 977H)

5 Credits 977H / 2.5 Credits 9770C

The Concert Band is an intermediate level instrumental ensemble that performs a variety of repertoire and may be elected as either a major or minor. Personal musicianship skills developed through participation in this ensemble include beginning to intermediate level playing techniques, music literacy, music theory, ear training, and performance experience. Ensemble skills that are developed include awareness of and sensitivity to ensemble tone quality, blend, balance, intonation, articulation, phrasing, dynamics, and style. Grades 9-12. This class will require participation in rehearsals and performances both during and after school.

WIND ENSEMBLE (971H)

5 Credits

The Wind Ensemble is a highly advanced instrumental ensemble that performs a wide variety of concert repertoire. Personal musicianship skills developed through participation in this ensemble include advanced playing techniques, music literacy, music theory, ear training, and performance experience. Ensemble skills that are developed include awareness of and sensitivity to ensemble tone quality, blend, balance, intonation, articulation, phrasing, dynamics, and style. This class will require participation in rehearsals and performances both during and after school. Participation in the Wind Ensemble is determined by audition and recommendation of the Band Director. Students selected for participation in this course will perform in a minimum of one class recital. Students selected for participation in this course will perform in a minimum of one class recital.

ORCHESTRA (979C, 980H)

5 Credits

The Orchestra is an advanced level string ensemble that performs a wide variety of concert repertoire. Personal musicianship skills developed through participation in this ensemble include intermediate to advanced playing techniques, music literacy, music theory, ear training, and performance experience. Ensemble skills that are developed include awareness of and sensitivity to ensemble tone quality, blend, balance, intonation, articulation, phrasing, dynamics, and style. This class will require participation in rehearsals and performances both during and after school. With the approval of the orchestra director, students may elect to take this class for honors credit. Students selected for participation in this course will perform in a minimum of one class recital.

DRAMA

The NHS Drama department offers a variety of course work and opportunities for students interested in performing, creating, and critiquing works both on stage and in film. All courses align with 2019 MA Arts Curriculum Frameworks.

ACTING FOR STAGE AND FILM (852C)

2.5 Credits

This introductory acting course is designed for students interested in learning how to act and perform in theater, television and film. Students will develop acting skills through improvisation, scene work, theater games and exercises, and group play building. Students will also learn the essential mechanics of script development through improvisational material, group writing, and analysis of proven works.

ACTING AND DIRECTING (854C)

2.5 Credits

This intermediate level course is designed for students interested in focusing on acting and directing as artistic disciplines. Through use of vocal and diction exercises, physical character work, pantomime, complex improvisation, scene work, and advanced monologues, students will work to improve their acting skills and technique. In addition, students will study the fundamentals of directing by directing their peers in original and/or published scripts in scenes that will be performed in class and /or as public performances. **This class may require participation in rehearsals and performances both during and after school.** Prerequisite: Successful completion of Acting for Stage and Film **This course may be taken concurrently with Acting for Stage and Film**

ADVANCED ACTING(855C)

5 Credits

This advanced level course is designed for students interested in a comprehensive study of acting. Students will study the Stanislavski method and process acting, and apply character development techniques to scene work. Significant time will be spent studying and preparing roles from plays that have shaped modern and contemporary drama and musical theater. Particular attention will be paid to developing strategies and preparing for college drama auditions. **This class will require participation in rehearsals and performances both during and after school.**

Prerequisite: Successful completion of Acting for Stage & Film, Acting & Directing, or teacher recommendation.

CREATIVE WRITING AND PLAYBUILDING (856C)

2.5 Credits

This course is designed for writing and drama students who would like to pursue playwriting. Through improvisation, research, character building, plot work, and adaptation, students will develop dialogues, one acts, full length plays, musicals and screenplays. From the perspective of the writer, students will learn action, dramatic tension, characterization, stage composition, dialogue and source material for the development of scripts. Students will closely explore classic and contemporary examples

of comedy, tragedy, spectacle, farce, history and epic plays.

CINEMA AS AN ART FORM (860)

2.5 Credits

Casablanca, It's a Wonderful Life, Star Wars, the Harry Potter series....What makes a film a masterpiece? In this course, students will study and analyze great films from the past-through the present from a critical perspective. In addition students will discuss the influence that history, society, culture, politics, and family have on the creative process, and why these films matter.

Advanced Acting Troupe (864H)

5 credits

The advanced acting troupe will focus on developing highly evolved material for performance. In this course students will review, tone and apply acting and directing skills acquired through study in other drama courses and through extracurricular work. This course offers the student the opportunity to independently produce unified, meaningful productions for public viewing. Students will work with Norwood instructors in developing programming and theater for young audiences. Students in this course will have the opportunity to contribute to and participate in the cultural life of the community. Students will work in teams to develop pertinent theme based theater. Students each year will study, develop, and produce works from diverse cultures and from other locals in the United States. Students enrolling in this course must demonstrate well-developed acting skills through audition. Through work in this course students prepare for advanced academic and professional work in college. The students who take this class would function as a company and will participate in festivals including The Mass. Drama Guild Festival. Students may enroll in this course with the recommendation of the drama instructor. Students who participate in this course are required to participate in after school rehearsals

ADVANCED ACTING: Devised & Proven Play Production (863-01)

5 credits

This course is a practical, physical introduction to collaborative and devised theatremaking. Devising theatre is the process of creating theatre in a collective collaborative manner. Students will also alternate their focus when working on projects, each taking on the roles of actor, director, technical theatre artist, puppeteer, choreographer and stage manager among other essential theatre making jobs. In this project based course will build and perform at least one devised one-act or full length play or musical together. Students will also build and perform one traditional one-act proven play. Students will be exposed to a variety of processes in ensemble-theatre-making, including adaptation, group writing, found text, Viewpoints and Composition & improvisation. Students will draw heavily on their own personal experiences, culture and personal stories in the selection and building of material for study and production. Students will be required to participate in some after school rehearsals.

BROADCAST TELEVISION & DIGITAL MEDIA PRODUCTION

INTRODUCTION TO BROADCAST TELEVISION & DIGITAL MEDIA PRODUCTION 1 (782C)

2.5 Credits

An introductory level course where students will study the history of and future implications of television and video in industry, education, entertainment and other forms of media communication. Students will be given the opportunity to learn about television production, news production, and techniques for successful writing and production. Students will be eligible to audition and participate in front of the camera and behind the scenes of the school newscast. The inner workings of the newsroom, and media literacy from advertising, sit-coms, newscasts, and dramas are studied. This level of TV class produces programs for the educational access channel. Student projects may include public service announcements, news packages, commercials, news opens, and music videos. Students will be trained on switching, special effects, graphics, studio and remote cameras, and digital editing. After school time will be needed to complete many projects. This course is a requirement for any future coursework in TV.

INTRO TO PODCASTING AND AUDIO STORYTELLING (783)

2.5 Credits

This class is designed to introduce students to the art of podcasting. Students will learn techniques for writing stories and interview questions, how to choose sounds or music that will best support a story, and how to mix and edit sound clips into a cohesive finished product.

ADVANCED PODCASTING AND AUDIO STORYTELLING (7831H)

2.5 Credits

The primary goal of this course is to build on the skills students develop in Introduction to Podcasting. Students will work independently to develop a podcasting presence online. During this hands-on course students study leading industry podcast professionals to learn start to finish how to take an idea for a podcast through to a branded podcast series.

Students will study and utilize interviewing techniques and strategies for reaching and engaging your audience. Students will develop their own roadmap for promoting your series and come up with a plan for distribution and monetization. Students will leave the course with vetted, recorded and well produced podcasts for their dream podcast series. This course will provide students with the knowledge and tools necessary to apply their new skill set immediately to the podcasting profession.

PRODUCING TV/ MEDIA / TV 2 (784C)

2.5 Credits

An intermediate level course designed to further develop skills in television production, with a focus on producing programming for broadcast on the Norwood Public Access television station. With the recommendation of the instructor, students may choose to focus on one of the following tracks:

- DOCUMENTARY TV & FILM TRACK

Emphasis will be on the production of documentary television and creative filmmaking. Students will develop skills in acting, anchoring and reporting, and will write, produce, direct and edit PSA's, commercials, and short films.

- **SPORTS MEDIA TRACK**

Emphasis will be on sports media production and reporting. Students will develop skills in anchoring and reporting, and in both remote truck and field production. Students will write, produce, direct, and edit sports television packages.

- **STUDIO & LIVE TELEVISION TRACK**

Emphasis will be on live studio production and digital production. Students will develop skills in hosting, anchoring, and reporting, and will write, produce, direct and edit broadcast television packages.

Prerequisite: TV1 and TV1 teacher recommendation

ADVANCED TV/ MEDIA 3 (786C, 787H)

5 Credits

An advanced level course designed to further develop skills in television production, with a focus on producing programming for broadcast on the Norwood Public Access television station. With the recommendation of the instructor, students may continue to focus on one of the following tracks:

- DOCUMENTARY TV & FILM TRACK
- SPORTS MEDIA TRACK
- STUDIO & LIVE TELEVISION TRACK

Prerequisite: TV2 and TV2 teacher recommendation

BROADCAST TELEVISION & DIGITAL MEDIA INTERNSHIP-TV4 (790H)

5 Credits

The fourth year of TV allows the student to prepare for leadership and advanced production skills in broadcast television. Students in TV4 are serious about a college major related to communications. An emphasis on digital storytelling, digital editing, broadcast management and programming allows students to focus on individual productions as well as contribute to programming on educational and the senior video. Students at this level contribute to programming on the educational access channel, NHS Update, and senior video. This intense course will require after school commitment for a variety of projects. Students will continue to focus within their chosen track.

- DOCUMENTARY TV & FILM TRACK
- SPORTS MEDIA TRACK
- STUDIO & LIVE TELEVISION TRACK

Prerequisite: TV 3 and TV 3 teacher recommendation

WELLNESS DEPARTMENT

Wellness Education Program 9-12

The Wellness Education program has been designed to support the academic mission of the school, as well as the lifelong health and well-being of our students. Wellness is a 4

year graduation requirement. Similar to other effective academic disciplines at Norwood High School, students in grades 9-12 participate in a planned, sequential program that blends physical education and health concepts, and skills for four years totaling 10 credits. It is aligned with the state frameworks and the national standards. The activities and topics in the 9/10 Wellness class serve as the foundational, “core” experience for students. The 11/12 Wellness class looks to provide students with flexibility in their participation and learning, as units of study look to accommodate students’ interests in greater depth. The intent of this approach is to build healthy decision making skills, as well as critical thinking skills and resiliency, which in turn will lead to active healthy individuals and community members for the future.

The Norwood Public Schools Wellness Education Program has been designed to enhance students' development of the knowledge, growth, skills and lifetime behaviors that are necessary for lifelong learning and personal well-being.

WELLNESS (GRADE 9/10) (938)

2.5 Credits

Theme: Self-Awareness & Responsible Decision Making

Wellness Component Focus: Goal Setting, Social Norms/Self-Management, Healthy Decision Making, Interpersonal Communication/Advocating, Anger Management, Conflict Resolution, Maslow’s Hierarchy, Refusal Skills, Suicide Prevention, Violence in Relationships, Teen Dating Violence, Reproductive Systems and Human Sexuality, Alcohol Education, Nutrition, Disease Prevention, financial literacy, mental health first aid, digital citizenship

Physical Education Focus: Lifetime Fitness, Team Building, Adventure Fitness Ultimate Frisbee, Basketball, Tennis, Soccer, Floor Hockey, Flag Football, Volleyball, Finnish Baseball Yoga/Flexibility

Thanks to a generous donation from the SAPC grant we are partnering with Norwood High School Health Department to bring 9th Grade students *AlcoholEdu for High School*, an evidence-based, online alcohol prevention course that takes a project based approach to learning.

WELLNESS (GRADE 11/12) (939)

2.5 Credits

Theme: Social Awareness & Responsible Decision Making

Wellness Component Focus Health:

Body Image, Eating Disorders, Addiction, Suicide Prevention, Cancer and Environment, Drinking & Distracted Driving, Life Long Decision making, Teen Pregnancy Prevention, “Whole Life Challenge”, First Aid-CPR, financial literacy, mental health first aid, digital citizenship.

Physical Education Focus:

Team Building, Adventure Fitness, Strength Training, Yoga/Flexibility Spikeball, Lifetime Leisure Activities, Volleyball, Tennis, Softball, Irish Football,

UNIFIED WELLNESS (940)

“Unified Physical Education is a unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through ongoing fitness, sports, leadership and wellness activities. This course focuses on the **physical, intellectual and social growth** of all participants. Engaging in physical activity and sport alongside peers with and without disabilities helps to foster important social relationships.” - Special Olympics Unified Champion Schools

WELLNESS COMPONENT FOCUS HEALTH:Emotional and mental wellness, Social wellness, Physical Wellness, Nutritional Wellness, Inclusive Youth leadership, Inclusion, Co-Leadership, Teamwork, Advocacy

PHYSICAL EDUCATION FOCUS:Adventure Activities, Strength and Conditioning - Fun Fitness Fridays, Basketball, Lifetime Functional Fitness Activities, Frisbee, Cardiovascular Endurance Activities

COLLEGE AND CAREER READINESS FOCUS:Flexibility, Adaptability, Leadership, Responsibility, Critical thinking, Communication, Collaboration skills

HONORS JUNIOR AND SENIOR EXERCISE PHYSIOLOGY (936, 937)

2.5 or 5 Credits

This course examines the human anatomical and physiological response to exercise and exercise training. Students who have a passion for exercise science and personal fitness will benefit and enjoy this course. Exercise Physiology will address topics of study include each of the following: energy metabolism, sports nutrition, skeletal muscle anatomy and physiology, resistance training for the development of muscular fitness, cardio respiratory anatomy and physiology, cardiorespiratory training and endurance performance, overtraining, quantifying sports training, exercise and thermal stress, exercise at high altitude, ergogenic aids and performance.. This course will explore the fitness field. Class time will include classroom instruction as well as time in the fitness center. The scientific and theoretical components covered in class will be reinforced with hands-on experiences. Teacher recommendation is required for this course.

Healthcare Innovation Pathways (HIP)

Please refer to the “special programs” section for information and details regarding this program, taught in the Wellness Department.

ALTERNATIVE EDUCATION

The Alternative Education Program is designed for students who have met with difficulty in the mainstream high school setting. The course content follows the established curriculum of the regular education setting, yet does provide differentiated instruction to students. Entry into the program begins with a referral to guidance through the staff. Each referral is processed through the Alternative School Evaluation Committee. Entrance into the Alternative School Program is optional upon the part of the student. As stated, the Alternative School Program follows an established curriculum and gives those students

who have difficulties with the regular Norwood High School setting a better chance to excel in a learning environment better suited to their personal needs.

The objectives of the Norwood High School Alternative School are:

1. For alternative school students to gain a better understanding of their grade levels curriculum.
2. To provide an environment better-suited to learning for those students who have met with difficulty in the mainstream high school.
3. To make students of the program aware that school is an essential part of life, and help them to raise their academic standards to a higher level.
4. To achieve success and gain confidence both academically and socially.
5. To better prepare students for their next endeavor, whether it is college, community college, trade school or work force.

NAHS SOPHOMORE COLLEGE-PREPARATORY ENGLISH (A1025)

5 Credits

This course is designed for students who thrive in a smaller learning community. With more access to individualized attention, they benefit from extra help with ELA skills and may go on to college or pursue a career. These students also receive extra attention for MCAS preparation. This course complies with the Massachusetts Frameworks. This course focuses on literature, grammar and composition. In literature students read the likes of; *The Accident* and *Of Mice and Men*. Students study vocabulary from literature as well as words that will be encountered on MCAS, SAT, ACT and in higher learning. Students are reintroduced to the 5 paragraph essay and various editing techniques.

NAHS JUNIOR COLLEGE-PREPARATORY ENGLISH (A1032)

5 Credits

This course is designed for college-bound juniors. Students are expected to demonstrate competence in the skills and strategies of reading. Students must implement and refine the skill as and strategies of the writing process and develop an increasingly mature style in a variety of assignments. A variety of American literature will be studied. Literature will be chosen from the following: *The adventures of Huckleberry Finn*, *Catcher in the Rye*, *The Chocolate War*, *The Crucible*, *The Education of a Little Tree*, *A Farewell to Arms*, *Native Son*, *Ordinary People*, and *Our Town*. Students study vocabulary from literature as well as words that will be encountered on MCAS, SAT, ACT and in higher learning. A small learning environment and frequent interaction with the teacher is a benefit to students.

Prerequisite: passed Sophomore English

NAHS JUNIOR STANDARD ENGLISH A1033)

5 Credits

This course is designed for juniors who plan to continue their education at a technical, business, or two year college, enter armed forces, or join the workforce. Functional skills

in reading, writing, speaking, listening, and interviewing are emphasized. Readings from literary anthologies, novels, newspapers and magazines are studied. Students will study common and useful vocabulary. A small learning environment and frequent interaction with the teacher is a benefit to students.

Prerequisite: passed sophomore English

NAHS SENIOR COLLEGE-PREPARATORY ENGLISH (A1042)

5 Credits

This course is designed for college-bound seniors. Students are expected to demonstrate mastery of reading skills and strategies. Students are expected to demonstrate proficiency in all writing assignments. Reading assignments include: Best Short Stories of a Modern Age, *Death of a Salesman*, Points of View, *The Natural*. Students study vocabulary from literature as well as words that will be encountered on SAT, ACT and in higher learning. A small learning environment and frequent interaction with the teacher is a benefit to students.

Prerequisite: passed junior English

NAHS ALGEBRA 1 (A1213)

5 Credits

Algebra 1 is a continuation of Mathematic Course 3 begun at the Coakley Middle School. The major components of this course will provide a basis for students to continue mathematics through the remainder of high school. Major topics are: solving linear equations, polynomials, factoring, quadratic functions, radical and rational expressions. Students will be encouraged to make real life connections with the curriculum. A small learning environment and frequent interaction with the teacher is a benefit to students.

NAHS GEOMETRY (A1225)

5 Credits

Informal Geometry provides an alternative to the study of regular geometry. This course provides a solid foundation of the basics; terminology and real life application. Proofs are not covered in this course. A small learning environment and frequent interaction with the teacher is a benefit to students.

Prerequisite: passed Algebra I

NAHS INTRODUCTION TO ALGEBRA 2 (A1235)

5 Credits

Introduction to Algebra 2 is a course designed for students who have taken geometry. This course reviews concepts of Algebra I and basic concepts of geometry. Basic concepts of Algebra 2 are presented. A small learning environment and frequent interaction with the teacher is a benefit to students.

Prerequisite: taken any geometry course

NAHS STANDARD BIOLOGY (A1326)

5 Credits

This course's goal is to explain the complex and intriguing biological environment that

we live in. Cells, tissues, organs, species and populations are all covered in this course. Students will work independently, in small groups and one on one with the teacher to better understand important biological concepts. A small learning environment and frequent interaction with teachers is a benefit to students.

NAHS CRIMINAL JUSTICE (A1427C)

5 Credits

Criminal Justice is a full year course offered for general credit to sophomores, junior and seniors. This course stresses the basic concepts of law. Students will develop legal survival skills, general knowledge of laws, and a better understanding of what constitutes justice. Topics covered are: A history of Law, Introduction to law and the legal system, Criminal and Juvenile systems, Civil law, Consumer law, School law and Family law. Students will work individually and in small groups. A small learning environment and frequent interaction with the teacher is a benefit to students.

NAHS UNITED STATES HISTORY I (A1471C)

5 Credits

These courses are designed for sophomores who would prefer a traditional presentation of United States History. These courses will encompass events from colonization to Reconstruction. Emphasis is put on Massachusetts Standards to ensure adequate preparation for the MCAS test. A small learning environment and frequent interaction with the teacher is a benefit to students.

NAHS UNITED STATES HISTORY II (A1481C)

5 Credits

This course is designed for juniors. This course offers a traditional presentation of United States History. The course covers events from Progressivism and continues to the present. Emphasis is placed on Massachusetts Standards to ensure adequate preparation for the MCAS test. A small learning environment and frequent interaction with the teacher is a benefit to students.

NAHS SOCIOLOGY (A1433C)

2.5 Credits

This is a half year course that is offered to juniors and seniors. This course focuses on the study of society, social institutions, and social relationships. The goal of this course is to make students aware of how society functions. Emphasis is placed on sociological methodology, culture, values, norms, group behavior, family, and socialization. Students will also study adolescents, deviance, gender and race. A small learning environment and frequent interaction with the teacher is a benefit to students.

NAHS PSYCHOLOGY (A1433C)

2.5 Credits

This is a half year course open to both juniors and seniors and studies human behavior. The students will study behavior classified as normal or abnormal. Students will study the many schools of psychology which include behaviorism, psychoanalytic

functionalism, Gestalt and humanism. Students will work independently and in small groups to better understand human behavior. A small learning environment and frequent interaction with the teacher is a benefit to students.

NAHS CONTEMPORARY PROBLEMS (A1452)

5 Credits

This course is offered as a full-year course to seniors. It is designed for students who desire a study of both United States and World issues. The course will cover political, social and economic issues. Students will interact with newspapers, journal articles and accredited multimedia information. An emphasis on current issues will be present. Students are responsible for keeping a journal response book of all articles covered. A small learning environment and frequent interaction with the teacher is a benefit to students.