

NATHAN HALE-RAY HIGH SCHOOL

PROGRAM OF STUDIES

2026-2027



Christopher Eckert, Principal

Allison Stroili, Assistant Principal

NATHAN HALE-RAY HIGH SCHOOL 2026 - 2027 PROGRAM OF STUDIES

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The following person has been designated as a district compliance officer who will coordinate compliance with the non-discrimination requirement of Title IX and 504.

Wendy McCabe, Director of Pupil Services

Title IX Compliance Officer/Title IX Coordinator and Section 504 Coordinator

East Haddam Board of Education

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ACCREDITATION

Nathan Hale-Ray High School is accredited by the New England Association of Schools and Colleges, Inc. (NEASC), a private, nationally-recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

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NHRHS Core Values and Beliefs

Nathan Hale-Ray High School prepares all students to meet 21st-Century expectations as self-motivated, lifelong learners in a positive environment. The school collaborates with the community to promote the development of college and career-ready citizens in a diverse global society.

Transferable Skills

At Nathan Hale-Ray, we believe all students can succeed, but success is not limited to pursuing post secondary education. We are committed to helping all our students discover and nurture their career interests. By the time they graduate NHRHS, students will be:

- **effective communicators** who can exchange thoughts and ideas in a variety of formats and settings;
- **informed thinkers** who use critical thinking skills to draw conclusions and reach justifiable decisions;
- **problem solvers** who strategize and innovate to develop solutions;
- **self-directed learners** who engage in inquiries across multiple disciplines and contexts; and
- **responsible citizens** who contribute to the school and community.

A Message from the Principal

Dear Students,

It is with great excitement that I present to you the *Nathan Hale-Ray High School Program of Studies* for the 2026–2027 school year. At Hale-Ray, our mission is grounded in lifelong learning, critical thinking, effective communication, meaningful contribution to our community, and a commitment to collaboration, innovation, and excellence.

This guide reflects the hard work of our passionate educators who have thoughtfully designed courses and pathways to support your growth—both academically and personally. As you explore what’s inside, I encourage you to pay close attention to the *Career Cluster* section. These pathways are designed to help you identify areas of interest and align your coursework and extracurricular experiences accordingly, setting you up for success beyond the walls of our school.

You’ll also find expanded opportunities for earning industry-recognized credentials, college credit, and engaging in extended learning experiences that foster real-world skills and

networking connections. These offerings represent our ongoing commitment to providing a dynamic and forward-thinking education.

Take time to carefully review the Program of Studies, discuss options with your teachers, counselors, and family, and choose a path that excites and challenges you. We are proud of all that Hale-Ray has to offer and are eager to see how you'll take full advantage of the opportunities ahead.

Sincerely,

Mr. Christopher Eckert

Principal

Nathan Hale-Ray High School

Requirements for Graduation

In order to satisfy the high school graduation requirements within East Haddam Public Schools, a student must have satisfactorily completed their prescribed course of study, completed a senior capstone project; demonstrated proficiency in basic skills identified by the East Haddam Board of Education as established performance standards in literacy, mathematics and science; and satisfied the legally mandated number and distribution of credits required to graduate from high school.

Promotion Protocol:

Credit Grid for Nathan Hale-Ray High School Students and the Credit that they should have earned at the end of each grade level: All Nathan Hale-Ray High School students starting from ninth grade are required to achieve 28 credits (class of '29 and beyond) or 25 credits (prior to the class of '29) to graduate. Students can be considered on target for graduating in four years by achieving the following credit totals:

At the end of:	NHRHS Students should have:
9th Grade	6 credits
10th Grade	12 credits
11th Grade	18 credits
12th Grade	25 credits (28 for class of '29 and beyond)

Graduation Requirements for Classes of 2027 & 2028

Total credits = 25

Humanities	9.0 Credits
English	4 Credits
Social Studies	3 Credits
Includes: AP Government & Civics or Civics – 0.5	
U.S. History – 1.0	
Art and/or Music	0.5 Credit
Elective Humanities	1.5 Credits
Class of 2027 & beyond includes: Personal Finance - 0.5	
 Science, Technology, Engineering, & Mathematics (STEM)	 9.0 Credits
Mathematics	3 Credits
Science	3 Credits
Career & Technical Education/Unified Arts (CTE/UA)	1 Credit
STEM Electives	2 Credits
 Other Credits	 7.0 Credits
Physical Education	1 Credit
Health	1 Credit
World Language*	1 Credit
Senior Project	1 Credit
Other Electives	3 Credits
 Total	 25 credits

*Students who wish to pursue continued education beyond Nathan Hale-Ray High School are strongly encouraged to accumulate two or more world language credits.

Each local Board of Education must specify the requirements necessary for graduation. These requirements include that each student must participate in Connecticut State Department of Education standardized tests.

Graduation Requirements for Class of 2029 and Beyond

Total credits = 28

Humanities	9.0 Credits
English	4 Credits
Social Studies	3 Credits
Includes: AP Government & Civics or Civics – 0.5	
U.S. History – 1.0	
Art and/or Music	0.5 Credit
Elective Humanities	1.5 Credits
Class of 2027 & beyond includes: Personal Finance - 0.5	
Science, Technology, Engineering, & Mathematics (STEM)	10.5 Credits
Mathematics	3 Credits
Science	3 Credits
Career & Technical Education/Unified Arts (CTE/UA)	1.5 Credits
STEM Electives	3 Credits
Other Credits	8.5 Credits
Physical Education	1 Credit
Health	1 Credit
World Language*	1 Credit
Senior Project	1 Credit
Other Electives	4.5 Credits
Total	28 credits

*Students who wish to pursue continued education beyond Nathan Hale-Ray High School are strongly encouraged to accumulate two or more world language credits.

Each local Board of Education must specify the requirements necessary for graduation. These requirements include that each student must participate in Connecticut State Department of Education standardized tests.

Humanities Electives

21st Century Theater	AP Psychology	Journalism	Sociology
AA/BL & PR/LAT Studies	Concert Choir	Mixed Media	Spanish I, II, III, & IV
AP Art and Design	Contemporary Issues	Music Theory	UConn ECE French IV: Grammar and Composition
AP Art History	Creative Writing	Personal Finance	UConn ECE French V: Global Culture I
AP French Language and Culture	Culinary Arts I, II, III	Professional Baking	UConn ECE Fundamentals of Sight-Singing & Ear Training
AP Psychology	Digital Photography	Psychology	UConn ECE Individual and Family Development
AP Spanish Language and Culture	Foundations in Drawing	Public Speaking	UConn ECE Music Appreciation
Band	Foundations in Painting	Rosetta Stone	Understanding the Influence of Music
Beginning Band	French I, II, III, & IV	Select Choir	Women's Studies
Clothing and Design	Graphic Design	Service Learning Through Agriculture <i>*pending Board of Ed Approval</i>	

STEM Electives

3D Graphics & Special Effects	Clay & 3-D Design	Introduction to Engineering	Strength and Conditioning Training
Accounting I & II	Computer Information Technology I & II	Lifetime Fitness Activities	Team Sports
Agriculture Power, Mechanics & Equipment	Computer Aided Manufacturing I & II	Makerspace	Transportation Systems
Anatomy and Physiology	Digital Video Production	Natural Resources Mgmt - Soil, Water, and Plants	TV Studio Production
Architectural Drafting and Design	Engineering & Product Design Technology	Natural Resources Mgmt- Wildlife, Aquatics, and Invasive Species	UConn ECE - Behavior and Training of Domestic Animals
Astronomy	Entrepreneurship	Physics	UConn ECE - Introduction to Companion Animals
Automotive and Transportation Systems	Forensics I & II	Principles of Fitness	Unified Physical Education
Behavior and Training of Domestic Animals	Floral Art	Robotics Technology	Team Sports
Business and Personal Law	Fundamentals of Horticulture	Service Learning Through Agriculture	Veterinary Science and Technology - Veterinary Assistant Education
Career Planning	Introduction to CAD and 3D Printing	Sports and Events Management <i>*pending Board of Ed Approval</i>	Veterinary Science and Technology - Veterinary Technician Education
Child Development	Introduction to Companion Animals	S.T.E.A.M. Guitar Building	

Planning for Grades 9-12

In high school, it's important to balance the subjects required for graduation and those you want to study. When choosing courses, consider:

- a. What courses are required for graduation?
- b. How challenged do I feel in my classes? What kinds of grades have I received? Should I challenge myself with accelerated classes?
- c. What subjects am I drawn to? Why?
- d. What courses will best prepare me for college and career?
- e. What post-secondary programs am I interested in? Have I discussed plans for life after high school with my parents/guardians and school counselor?
- f. What are the entrance requirements for the post-secondary program(s) I am interested in?

To answer these and other questions, talk to your parents/guardians, teachers, and school counselor. Your school counselor will help you make informed decisions concerning your personal, academic, and career goals.

Community Service

Students who document 200 hours or more of community service throughout their high school career (prior to May 1st of their senior year) will be recognized at graduation with a Community Service Honor Cord. This recognition is sponsored by the Nathan Hale-Ray High School Chapter of the National Honor Society (NHS), though a student does not need to be an NHS member to receive this recognition. All community service hours must be submitted by May 1 of the year in which they are completed, unless prior administrative approval was granted.

High School Partnerships

Middlesex Community College Partnership/Wesleyan High School Scholars

Middlesex Community College and Wesleyan University offer **free college courses** to juniors and seniors. To enroll, students must:

- Be in the top 20% of their class
- Have a minimum cumulative B average
- Have access to transportation to and from the college's campus
- Meet course prerequisites

Interested students must complete an application packet, which they can get from their school counselor. Applications for the fall program are available in April of the previous academic year and applications for the spring program are available in November of the previous semester.

Students are responsible for their own books, transportation, and for taking any placement tests required by the college before admission. Please see your counselor for further details.

Dual Enrollment

University of Connecticut's Early College Experience

UConn Early College Experience (UConn ECE) provides motivated students with the opportunity to take university courses while in high school. These challenging courses allow students to preview college work, build confidence in their college readiness, and earn college credits that provide both an academic and financial head start on a college degree and other postsecondary opportunities. UConn ECE instructors are high school teachers approved by the University. Current UConn ECE course offerings include:

- French
- Music
- Introduction to Companion Animals
- Behavior & Training of Domestic Animals
- Individual and Family Development

UConn grants all ECE students access to academic resources through the University, including online classrooms and the school's library. UConn ECE courses reflect the university grading scheme, with final grades issued on an A through F scale. If a student's final grade is a D- or better, they will receive credit on a UConn transcript, in addition to the high school credit.

Early College Advanced Manufacturing Pathway

Nathan Hale-Ray High School has partnered with Goodwin University to offer the Early College Advanced Manufacturing Pathway (ECAMP™) program. This flexible, comprehensive program provides a pathway to employment in well-paying, entry-level positions and pre-apprenticeships in the state's growing manufacturing sector. Students will learn manufacturing skills at the high school from Goodwin-certified instructors, while earning college credits toward a degree or certification in Manufacturing. For each course taken and passed as part of ECAMP, students earn three credits toward a degree or certification from Goodwin University in addition to the high school credit. If students enroll in a school other than Goodwin, these credits may transfer. Courses included in this program are Introduction to Engineering, Introduction to CAD and 3D Printing, and Computer Aided Manufacturing.

Special Education

In order to receive special education services, students must be deemed eligible according to IDEA and state regulations. For students who meet these requirements, the Special Education department will hold a Planning and Placement Team (PPT) meeting to develop an Individual Education Plan (IEP). NHRHS provides special education services within the least restrictive

environment, per IDEA requirements. Please visit the Department of Pupil Services website for additional information regarding special education.

Course Cancellation

Every effort will be made to meet all course requests. However, a course may be canceled, or enrollment may be restricted for any of the following reasons:

- Low enrollment
- Limited facilities
- Unavailability of staff
- Reduction of the budget

Dropping/Adding A Course

School counselors will make every effort to resolve schedule conflicts prior to the new school year. **All course drops and adds must occur during the first five (5) meetings of a class.** (The minimum number of credits must be carried.) Courses may be dropped for the following reasons:

- Schedule conflict
- Improper placement
- Administrative recommendation
- Excessive course load

Students who desire a schedule change must meet with their counselor to discuss proposed changes. Students are expected to give a subject a fair trial. Schedule changes on the first day of each semester is limited to students who have been incorrectly placed in a class (i.e., grade, level, etc.). Courses dropped/changed on or after the fifth (5) class meeting that the student attended or should have attended may be noted with a W (Withdrawal) and the grade at the time of withdrawal on the transcript. Any change (up or down) in academic level requires a parent signature. (The minimum number of credits must be carried at all times.)

* Late withdrawals from AP classes will be handled on an individual basis through school counseling and administration.

Accelerated Course Definition

Accelerated courses provide an intensified approach to the curriculum of a College and Career Preparatory course. These courses involve greater depth of content, an accelerated pace, and increased workload. Accelerated courses are weighted heavier in overall GPA, and may be

required for placement into more advanced courses (e.g. Advanced Placement courses). To determine if Accelerated courses are a good fit, consider the following:

- Your readiness to take on greater responsibility as an independent learner
- Ability to hold yourself accountable to completing assignments
- Your prior grades in the subject (As and high Bs)
- Time commitment - ability to spend more time and effort on assignments
- Teacher recommendation

Advanced Placement Course Definition

Advanced Placement (AP) is a program offered through Collegeboard in which high school students may receive college credit upon successful completion of the AP exam. These rigorous, college-level courses require a significant time commitment; homework in an AP course could average two to three hours between each class period. Ability to earn college credit from AP courses varies by school—many colleges require students to score at least a 3 out of a possible 5 on the exam to qualify for credit.

****Students will be required to complete assigned summer work.**

****Students enrolled in AP courses are expected to take the College Board Exam in May.**

Ap Courses:

AP Art and Design

AP Art History

AP English Language and Composition

AP English Literature and Composition

AP Statistics

AP PreCalculus

AP Psychology

AP Spanish Language and Culture

AP Calculus AB

AP Calculus BC

AP Biology

AP Chemistry

AP US History

AP US Government and Politics

AP European History

AP French Language and Culture

Class Rank and GPA

Grade Point Average (GPA) and class rank measure your overall academic achievement throughout high school. These are cumulative measures, averaging your final grades from every class taken throughout high school. GPA converts numerical grades into a 12-point scale, which is then used to determine class rank.

Courses are weighted differently according to their level of difficulty, which is determined by NHRHS faculty and administration. Each course is categorized as College and Career Preparatory, Accelerated, or College-level. College-level courses include Advanced Placement (AP) or Dual Enrollment.

Beginning sophomore year, class rank and GPA are calculated at the end of each semester. Seniors' GPA and class rank are recalculated at the end of the third quarter in order to identify the valedictorian and salutatorian. Students must be enrolled full-time and must have attended NHRHS for at least three semesters to be included in the class ranking.

Nathan Hale-Ray High School's GPA scale is listed on the following page. Many colleges use a 4-point GPA scale; to convert to an approximate 4-point scale, add one to the weighted average and divide by three.

Nathan Hale-Ray High School GPA Scale

Numerical Grade	Letter Grade	0 – College and Career Preparatory	1 – Accelerated	2– College/AP
97-100	A+	12	13	14
93-96	A	11	12	13
90-92	A-	10	11	12
87-89	B+	9	10	11
83-86	B	8	9	10
80-82	B-	7	8	9
77-79	C+	6	7	8
73-76	C	5	6	7
70-72	C-	4	5	6
67-69	D+	3	4	5
63-66	D	2	3	4
60-62	D-	1	2	3
0-59	F	0	0	0

To convert to an approximate 4-point scale, add one to the weighted average and divide by three.

Letter grades reflect the student's level of achievement according to the following scale:

As - Excellent achievement

Bs - High quality achievement

Cs - Average achievement for course expectations

Ds - Passing, but below average achievement for course expectations

Fs - Does not meet standards for course expectations; no credit awarded

A letter grade of "I" on a report card indicates that coursework is incomplete due to extenuating circumstances such as prolonged illness. A student receiving an Incomplete in any subject must do the required work within 10 school days after the close of the marking period. Failure to do so will result in a grade of "F" for the assignments. Exceptions to this rule will be considered on the recommendation of the teacher with the approval of the school counselor and the administration.

Reporting to Parents/Guardians

Report cards and progress updates are posted online in the student information system (PowerSchool). Parents/guardians without activated PowerSchool accounts may request a mailed copy of mid-quarter progress reports by contacting the Main Office of Nathan Hale-Ray High School.

Honor Roll

The Honor Roll is published four times each year for students in grades 9-12 after report cards are issued. The Honor Roll is based on grades in each class. To be eligible, a student must meet the following requirements:

High Honors – No grade below an A-

Honors – No grade below a B-

Homework

The East Haddam Board of Education recognizes that scholastic growth requires a reasonable amount of study and preparation. For each course, students should expect to spend an average of thirty minutes outside of class time on homework every day. Students in Accelerated and Advanced Placement courses should expect an hour or more. Teachers will notify students and parents/guardians of successful homework completion and the grading methods used for homework. Teachers post homework assignments, projects, etc. on PowerSchool and Google Classroom for easy access by both students and parents/guardians.

Summer School

Summer school needs are determined during the fourth quarter. During summer school, students will have the opportunity to retake courses they failed during the school year in order to receive credit for the course.

To take a class during summer school, a student must have passed at least two of the four quarters in the class OR have a minimum numerical average of 50%. This requirement may be waived with administrative approval on a case-by-case basis.

Students can take a maximum of three credits of their high school program in summer school.

Summer school classes are graded as Pass/Fail. If a student earns a passing grade in summer school, a "P" will be posted on the student's transcript and they will receive full credit for the course. The student's original grade for the course will remain on the transcript and be included in their cumulative GPA.

Accelerated Summer School

Nathan Hale-Ray High School may offer summer school classes for advancement in selected courses, to be determined in the spring. A letter grade will be included in a student's cumulative GPA.

External Credit:

Students may take accelerated/extension/enrichment courses through an accredited institution or another approved high school summer program outside of NHRHS.

1. Courses for the purposes of acceleration/extension/enrichment must meet one of the following criteria:

- The course is not offered at Nathan Hale-Ray High School
- The course is offered at Nathan Hale-Ray High School, but cannot fit into the student's schedule due to scheduling conflicts.
- The course meets a prerequisite for another course offered at NHRHS and will be used for the purposes of accelerating the student's academic program.

2. Students MUST get approval from the building principal prior to the commencement of the course.

3. Students who choose to take acceleration/extension/enrichment courses are still required to enroll in the course equivalent of seven (7.0) credits each year in grades 9-11 or six (6.0) credits in grade 12. Under extraordinary circumstances, the high school principal may exempt students from this requirement.

Career Clusters

Career clusters are groups of related occupations that share common features and use similar skills. These sixteen clusters connect what students are learning in school with the knowledge and skills they will need in college and careers. Traditionally, the career clusters are:

- | | |
|---|---|
| ❖ Agriculture, Food, and Natural Resources | ❖ Health Science |
| ❖ Architecture and Construction | ❖ Hospitality and Tourism |
| ❖ Arts, Audio/Video Technology and Communications | ❖ Human Services |
| ❖ Business Management and Administration | ❖ Information Technology |
| ❖ Education and Training | ❖ Law, Public Safety, and Corrections |
| ❖ Energy | ❖ Manufacturing |
| ❖ Finance | ❖ Marketing |
| ❖ Government and Public Administration | ❖ Science, Technology, Engineering, and Math |
| | ❖ Transportation, Distribution, and Logistics |

The career clusters were updated in 2024 to reflect changes in the job market. Students may encounter these career clusters instead of the traditional sixteen clusters listed above. Updated career clusters are:

- | | |
|----------------------------------|---------------------------------|
| ❖ Advanced Manufacturing | ❖ Healthcare & Human Services |
| ❖ Construction | ❖ Public Service & Safety |
| ❖ Supply Chain & Transportation | ❖ Agriculture |
| ❖ Arts, Entertainment, & Design | ❖ Energy & Natural Resources |
| ❖ Hospitality, Events, & Tourism | ❖ Digital Technology |
| ❖ Financial Services | ❖ Marketing & Sales |
| ❖ Education | ❖ Management & Entrepreneurship |

Using the career clusters and the offerings at Nathan Hale-Ray High School, we have created example paths of study aligned with specific clusters. The purpose of these examples is to help students consider courses that align with their postsecondary interests.

Career Cluster: Agriculture, Food, and Natural Resources

Careers in the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: ● Fundamentals of Horticulture ● Floral Art ● Natural Resources Management: ○ Wildlife, Aquatics, and Invasive Species ○ Soil, Water, and Plants ● Veterinary Science and Technology: ○ Veterinary Assistant Education ○ Veterinary Technician Education ● Behavior and Training of Domestic Animals* ● Introduction to Companion Animals* ● Service Learning Through Agriculture ● Anatomy & Physiology ● Culinary Arts I, II, III ● Contemporary Issues ● African American/Black & Puerto Rican/Latino Studies ● Entrepreneurship ● Professional Baking ● Public Speaking ● Personal Finance ● Career Planning ● VHS Courses *Also available as UConn ECE courses Activities: ● FFA and FBLA ● Student Council
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics	Physics OR AP Biology OR AP Chemistry	American Government & Civics OR AP U.S. Government & Politics	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Architecture & Construction

Careers in computer-aided drafting and design, planning, managing, building and maintaining the physical infrastructure environment, e.g., buildings, homes, parks, bridges, roads, highways, etc.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: ● Introduction to CAD and 3D Printing ● Architectural Drafting ● Transportations Systems ● Computer Information Technology I & II ● Robotics Technology ● Engineering & Product Design Technology ● Makerspace ● AP Art History ● Foundations of Drawing ● Entrepreneurship ● Psychology ● Sociology ● STEAM Guitar Building ● Public Speaking ● Personal Finance ● Career Planning ● VHS Courses Activities: ● Auto Club ● AV Club ● Chess Club ● FBLA ● Math Team ● Student Council ● Yearbook
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Probability & Statistics	Physics	American Government & Civics OR AP U.S. Government & Politics	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Arts, Audio/Video Technology & Communications

Careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, e.g., visual and performing arts and design, journalism, etc.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • AP Art History • Foundations in Drawing, Painting • AP Art & Design • Digital Photography • Graphic Design • Mixed Media • Clay & 3D Design • Journalism • Creative Writing • 21st Century Theatre • Band • Concert Choir • Music Theory • Understanding the Influence of Music • UConn ECE Music Appreciation • UConn ECE Fundamentals of Sight-Singing & Ear Training • Sports and Entertainment Management • 3D Graphics & Special Effects I • TV Studio Production • Public Speaking • Personal Finance • Career Planning • VHS Courses Activities: • AV Club • Drama Club • Equality Alliance • Student Council • Yearbook
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English OR AP Language & Composition	Algebra II	Chemistry	U.S. History AND Psychology OR Sociology OR AP Psychology	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature & Composition	Precalculus OR AP Precalculus OR Probability & Statistics	Physics	American Government & Civics OR AP U.S. Government & Politics	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Business Management and Administration

Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I OR Geometry	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • Accounting • Business & Personal Law • Career Planning • Personal Finance • Entrepreneurship • Sports and Entertainment Management • AP Psychology • Psychology • Sociology • Contemporary Issues • African American/Black & Puerto Rican/Latino Studies • Women's Studies • Public Speaking • VHS Courses Activities: • Class Act • Debate Club • Equality Alliance • FBLA or FFA • Student Council • Straight from the Heart • Yearbook • Youth Helping Youth
10	Sophomore English	Geometry OR Algebra II	Biology	Modern World History	Spanish/French	
11	Junior English OR AP Language and Composition	Algebra II OR Precalculus OR AP Precalculus	Chemistry	U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature and Composition	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Statistics	Physics	American Government & Civics OR AP U.S. Government & Politics	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Education & Training

Careers in planning, managing, and providing education and training services, and related learning support services.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • Child Development • UConn ECE Individual & Family Development • Psychology • Sociology • Creative Writing • Journalism • Forensic Science I & II • Anatomy & Physiology • Band/Choir • Understanding the Influence of Music • Music Theory • UConn ECE Music Appreciation • Women's Studies • Contemporary Issues • African American/Black & Puerto Rican/Latino Studies • TV Studio Production • Entrepreneurship • Public Speaking • Personal Finance • Career Planning • VHS Courses Activities: • Best Buddies • Equality Alliance • FBLA • Straight from the Heart • Student Council • World Language Club • Unified Sports
10	Sophomore English	Geometry	Biology	Modern World History OR AP European History	Spanish/French	
11	Junior English OR AP Language & Composition	Algebra II OR Precalculus OR AP Precalculus	Chemistry OR AP Biology OR AP Chemistry	U.S. History OR AP U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature & Composition	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Statistics	Physics OR AP Biology OR AP Chemistry	American Government & Civics OR AP U.S. Government & Politics AND AP Psychology	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Finance

Careers in services for financial and investment planning, banking, insurance, and business financial management

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: - Accounting - Business & Personal Law - Career Planning - Personal Finance - Sports and Entertainment Management - Entrepreneurship - Psychology - Sociology - Contemporary Issues - African American/Black & Puerto Rican/Latino Studies - Women's Studies 3D Graphics & Special Effects I - Public Speaking - VHS Courses Activities: - Debate Club - Equality Alliance - FBLA - High School Bowl - Student Council - Math Team - Straight from the Heart - World Language Club - Yearbook
10	Sophomore English	Geometry	Biology	Modern World History OR AP European History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History OR AP U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Statistics	Physics	American Government & Civics OR AP U.S. Government & Politics	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Government & Public Administration

Careers unique to government including governance, national security, regulation, and management and administration at the local, state, and federal levels

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: - Accounting - Business & Personal Law - Career Planning - Personal Finance - Entrepreneurship - Sports and Entertainment Management - Forensics I, II - Psychology - Sociology - Contemporary Issues - African American/Black & Puerto Rican/Latino Studies - Women's Studies - Public Speaking - VHS Courses Activities: - Chess Club - Debate Club - Equality Alliance - FBLA - FFA - Student Council - Straight from the Heart - World Language Club
10	Sophomore English	Geometry	Biology	Modern World History OR AP European History	Spanish/French	
11	Junior English OR AP Language & Composition	Algebra II	Chemistry	U.S. History OR AP U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature & Composition	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Statistics	Physics	American Government & Civics OR AP U.S. Government & Politics OR AP Psychology	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Health Science

Careers in planning, managing and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/Recommended Electives & Activities
9	Freshman English	Algebra I ACC Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: ● Introduction to Companion Animals* ● Veterinary Science and Technology ○ Veterinary Assistant Education ○ Veterinary Technician Education ● Culinary I, II, III ● Child Development ● UConn ECE Individual and Family Development ● Professional Baking ● Women's Studies ● Contemporary Issues ● African American/Black & Puerto Rican/Latino Studies ● Forensics I, II ● Public Speaking ● Personal Finance ● Career Planning * Available as a UConn ECE course Activities: ● Equality Alliance ● FFA ● Straight from the Heart ● Student Council ● World Language Club
10	Sophomore English	Geometry	Biology	Modern World History or AP European History	Spanish/French	
11	Junior English	Algebra II	Chemistry AND/OR AP Biology OR AP Chemistry	U.S. History or AP U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Statistics	Physics AND/OR Anatomy & Physiology AND/OR AP Biology OR AP Chemistry	American Government & Civics AND Psychology AND/OR Sociology	Spanish/French OR AP Spanish OR UConn ECE French V	

Career Cluster: Hospitality & Tourism

Careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreational events and travel-related services.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: - Accounting - Business & Personal Law - Personal Finance - Entrepreneurship - Sports and Entertainment Management - Contemporary Issues - African American/Black & Puerto Rican/Latino Studies - Psychology - Sociology - Women's Studies - Public Speaking - Culinary Arts I, II, III - Professional Baking - Career Planning - Personal Finance - Creative Writing - Journalism - TV Studio Production Activities: - Equality Alliance - FBLA - Newspaper - Straight from the Heart - Student Council - World Language Club - Youth Helping Youth
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English OR AP Language & Composition	Algebra II	Chemistry	U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature & Composition	Probability & Statistics	Physics	American Government & Civics OR AP U.S. Government and Politics AND AP Psychology	Spanish/French OR AP Spanish OR UConn ECE French IV	

Career Cluster: Human Services

Careers that prepare individuals for employment that relates to families and human needs.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • Accounting • Business & Personal Law • Personal Finance • Entrepreneurship • Psychology • Sociology • Women's Studies • Contemporary Issues • Public Speaking • Child Development • UConn ECE Individual and Family Development • UConn ECE Music Appreciation • Understanding the Influence of Music • Anatomy & Physiology • Career Planning • Creative Writing • Journalism • Personal Finance • VHS Courses Activities: • Best Buddies • Equality Alliance • FBLA and FFA • Straight from the Heart • Student Council • Unified Sports • World Language Club
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English OR AP Language & Composition	Algebra II	Chemistry	U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature & Composition	Probability & Statistics		American Government & Civics OR AP U.S. Government & Politics AND AP Psychology	Spanish/French OR AP Spanish OR UConn ECE French IV	

Career Cluster: Information Technology

Technical and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: ● Introduction to CAD and 3D Printing ● Architectural Drafting and Design ● Robotics Technology ● Engineering and Product Design Technology ● Computer Aided Manufacturing I & II ● Makerspace ● Graphic Design ● Digital Photography ● TV Studio Production ● Music Theory ● Personal Finance ● Career Planning ● Public Speaking ● VHS Courses Activities: ● AV Club ● Drama Club ● FBLA ● Math Team ● Newspaper ● Student Council ● Yearbook
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History	Spanish/French	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics OR AP Calculus OR AP Probability & Statistics	Physics	American Government & Civics		

Career Cluster: Law, Public Safety, Corrections & Security

Careers unique to government including governance, national security, regulation, and management and administration at the local, state, and federal levels

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • Business & Personal Law • Natural Resources Management - Wildlife, Aquatics, and Invasive Species • Journalism • Creative Writing • Public Speaking • Forensics I & II • Contemporary Issues • Women's Studies • Psychology • Sociology • Career Planning • Personal Finance • Public Speaking • VHS Courses Activities: • Debate Club • FBLA • Straight from the Heart • Student Council • World Language Club
10	Sophomore English	Geometry	Biology	Modern World History OR AP European History	Spanish/French	
11	Junior English OR AP Language & Composition	Algebra II	Chemistry	U.S. History OR AP U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English OR AP Literature & Composition	Precalculus OR AP Precalculus OR Probability & Statistics	Physics Forensics I, II	American Government & Civics OR AP U.S. Government and Politics AND AP Psychology	Spanish/French OR AP Spanish OR UConn ECE French IV	

Career Cluster: Manufacturing

Careers in planning, managing and performing the processing of materials into intermediate or final products, and related professional and technical support activities.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: ● Introduction to CAD and 3D Printing ● Architectural Drafting and Design ● Robotics Technology ● Engineering and Product Design Technology ● Computer Aided Manufacturing I & II ● Makerspace ● Personal Finance ● Entrepreneurship ● Career Planning ● Public Speaking ● VHS Courses ● S.T.E.A.M. Guitar Building Activities: ● Auto Club ● CT Electrathon Challenge ● Drama Club ● FBLA ● Math Team ● NASA HUNCH ● Student Council
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History	Spanish/French	
12	Senior English	Precalculus OR Probability & Statistics OR AP Precalculus OR AP Calculus OR AP Probability & Statistics	Physics AND/OR AP Biology OR AP Chemistry	American Government & Civics		

Career Cluster: Marketing

Careers in planning, managing, and performing marketing activities to reach organizational objectives.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • Accounting • Business & Personal Law • Career Planning • Personal Finance • Entrepreneurship • Sports and Entertainment Management • Graphic Design • Contemporary Issues • Women's Studies • Public Speaking • Psychology • Sociology • AP US Government and Politics Activities: • Debate Club • Equality Alliance • FBLA • Straight from the Heart • Student Council • World Language Club
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History	Spanish/French OR AP Spanish OR UConn ECE French IV	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics		American Government & Civics	Spanish/French OR AP Spanish OR UConn ECE French IV	

Career Cluster: Science, Technology, Engineering & Mathematics (STEM)

Careers in planning, managing, and providing scientific research and professional/technical services, including research and development services.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I OR Geometry	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: • Introduction to CAD and 3D Printing • Architectural Drafting and Design • Digital Photography • Graphic Design • Robotics Technology • S.T.E.A.M. Guitar Building • Engineering and Product Design Technology • Computer Aided Manufacturing I & II • Makerspace • TV Studio Production • Forensic Science I and II • Entrepreneurship • Career Planning • Personal Finance • VHS Courses • Fundamentals of Horticulture • Floral Art • Natural Resources Management ◦ Wildlife, Aquatics, and Invasive Species ◦ Soil, Water, and Plants • Veterinary Science and Technology ◦ Veterinary Assistant Education ◦ Veterinary Technician Education • Behavior and Training of Domestic Animals* • Introduction to Companion Animals* * Available as UConn ECE courses for college credit
10	Sophomore English	Geometry OR Algebra II	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II OR Probability and Statistics OR Precalculus OR AP Precalculus	Chemistry OR Anatomy and Physiology	U.S. History	Spanish/French	

12	Senior English	Precalculus OR Probability & Statistics OR AP Precalculus OR AP Calculus OR AP Probability & Statistics	Physics AND/OR AP Biology OR AP Chemistry	American Government & Civics		Activities: • Auto Club • AV Club • FBLA • FFA • Math Club • Straight from the Heart • Student Council • Youth Helping Youth
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Career Cluster: Transportation, Distribution, & Logistics

Careers in the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water, and related professional/technical support services.

*Suggested courses and progression. Actual courses are determined by individual student interests & progression.

Grade	English (ACC or CP)	Math (ACC or CP)	Science (ACC or CP)	Social Studies (ACC or CP)	World Language (ACC or CP)	Other Required Courses/ Recommended Electives & Activities
9	Freshman English	Algebra I	Integrated Physical Science	Introduction to Social Studies	Spanish/French	All plans of study should meet high school graduation & college entrance requirements. Electives: ● Introduction to CAD and 3D Printing ● Architectural Drafting and Design ● Robotics Technology ● Engineering and Product Design Technology ● Computer Aided Manufacturing I & II ● Makerspace ● TV Studio Production ● Personal Finance ● Career Planning ● Public Speaking ● Entrepreneurship ● VHS Courses Activities: ● Auto Club ● FBLA ● Math Team ● Student Council
10	Sophomore English	Geometry	Biology	Modern World History	Spanish/French	
11	Junior English	Algebra II	Chemistry	U.S. History	Spanish/French	
12	Senior English	Precalculus OR AP Precalculus OR Probability & Statistics	Physics	American Government & Civics		

Agricultural Science & Technology

Explore the Agricultural Science and Technology Program at Nathan Hale-Ray High School!

Our Agricultural Science and Technology Program is open to **all students** and offers an exciting way to learn real-world skills that prepare you for college, careers, and life beyond high school. Whether you're interested in animals, plants, or the great outdoors, our program gives you hands-on experiences that connect classroom learning to your everyday life as a future homeowner, community member, or professional.

Students can choose courses in **Animal Science, Plant Science, or Natural Resources**, all designed to support Connecticut Career Pathways, STEM education, and essential skills for success after graduation. Learning here goes beyond the textbook—you'll **explore through hands-on projects, field trips, guest speakers, and community-based experiences**, both inside and outside the classroom.

Plus, if you want to take your leadership skills further, you can join the **Ray FFA Chapter**, an organization that empowers students to lead, learn, and make a difference in their communities.

Discover your passion, develop your skills, and get ready for a future full of possibilities with the Agricultural Science and Technology Program!

866 BEHAVIOR AND TRAINING OF DOMESTIC ANIMALS

(One Semester – 0.5 Credit)

This course involves the application of behavior of companion animals, livestock, horses, and poultry to their management, training, and welfare. Basic principles of genetics and physiology of behavior, perception, training, learning, motivation, and stress with consideration of integrated behavioral management and animal welfare. Live animals will be a resource used in this course.

869 UCONN ECE - BEHAVIOR AND TRAINING OF DOMESTIC ANIMALS (ANSC 1602)

(One Semester – 0.5 Credit, 3.0 UConn Credits)

This course involves the application of behavior of companion animals, livestock, horses, and poultry to their management, training, and welfare. Basic principles of genetics and physiology of behavior, perception, training, learning, motivation, and stress with consideration of integrated behavioral management and animal welfare. Live animals will be a resource used in this course.

529 FLORAL ART

(One Semester – 0.5 Credit)

Discover the art of floral design! In this course, you'll explore how flowers can be used to create amazing works of art. You'll learn the basics of color, style, and design, get hands-on practice making your own arrangements, and pick up tips on keeping flowers fresh. We'll look at how floral art has changed over time, but the focus is on creativity—your ideas, your style, your designs. Along the way, you'll build real-world skills—like attention to detail, teamwork, communication, and customer service—that can boost your employability in many careers.

875 FUNDAMENTALS OF HORTICULTURE

(One Semester – 0.5 Credit)

Discover the science and creativity behind growing plants! In this hands-on course, you'll learn the basics of plant structure, growth, and care while exploring greenhouse production and a wide variety of plant species. You'll practice real horticulture techniques and see how plants impact our food systems, environment, and everyday lives. Whether you're interested in gardening, agriculture, or future careers in plant science, this course helps you build practical skills and confidence in working with the natural world.

867 INTRODUCTION TO COMPANION ANIMALS

(One Semester – 0.5 Credit)

This is an introductory course for students interested in the care and management of companion animals such as dogs, cats, rabbits, small mammals, birds, reptiles, amphibians, and fish. Basic concepts will include anatomy and physiology, nutrition, health, and general management. Students will participate in the daily care and management of our classroom animals. Live animals will be a resource used in this course.

868 UCONN ECE – INTRODUCTION TO COMPANION ANIMALS

(One Semester – 0.5 Credit, 3.0 UConn Credits)

This is an introductory course for students interested in the care and management of companion animals such as dogs, cats, rabbits, small mammals, birds, reptiles, amphibians, and fish. Basic concepts will include anatomy and physiology, nutrition, health, and general management. Students will participate in the daily care and management of our classroom animals. Live animals will be a resource used in this course.

521 NATURAL RESOURCES MANAGEMENT - SOIL, WATER, & PLANTS

(One Semester – 0.5 Credit)

Get ready to dig into the world beneath your feet! In this interactive course, you'll explore how soil, water, and plants work together to support life on Earth. You'll study different soil types,

learn what plants need to thrive, and investigate how water moves through natural environments. Through hands-on activities and outdoor learning, you'll discover how healthy ecosystems are managed and why they matter. Whether you're interested in agriculture, environmental science, or just love being

530 NATURAL RESOURCES MANAGEMENT - WILDLIFE, AQUATICS, & INVASIVE SPECIES

(One Semester – 0.5 Credit)

Step into the outdoors and discover the incredible diversity of life in your own community! In this hands-on course, you'll explore local habitats, observe wildlife behavior, and learn how animals interact with their environment. You'll also investigate how aquatic ecosystems function and how invasive species impact native plants and animals. From tracking wildlife signs to studying real environmental challenges, you'll build scientific, analytical, and problem-solving skills that can lead to careers in conservation, environmental science, and outdoor resource management.

524 LANDSCAPE MANAGEMENT

(One Semester - 0.5 Credit)

This course is designed to provide students with the knowledge and skills that will enable them to attain practical experience in the plant sciences, landscape maintenance and construction field. Important components of this course include, plant identification and selection, understanding landscape design, planning and construction, landscape maintenance, shop safety, portable power tools use and related outdoor wood projects.

519 VETERINARY SCIENCE & TECHNOLOGY - VETERINARY ASSISTANT EDUCATION

(One Semester – 0.5 Credit)

Get ready to work with animals and learn what it takes to keep them healthy! In this hands-on course, you'll explore animal care, basic medical procedures, and daily operations in a veterinary setting. You'll build practical skills that prepare you for a career as a veterinary assistant or other animal-focused jobs. Live animals will be a resource used in this course.

520 VETERINARY SCIENCE & TECHNOLOGY - VETERINARY TECHNICIAN EDUCATION

(One Semester – 0.5 Credit)

Step into the world of animal care and medicine! This hands-on course teaches you how to assist veterinarians with medical procedures, monitor animal health, and prepare for a variety of health care situations with pets. You'll gain real-world skills that can lead to a career as a veterinary technician or in other animal-focused professions. Live animals will be a resource used in this course.

Visual Arts

Visual Art courses are designed to serve all Hale-Ray students in grades 9-12. Students will be given opportunities to handle and apply various art materials and techniques, to problem solve and communicate ideas visually, stimulate personal creative expression, and to refine one's critical aesthetic sensibilities. Additionally, the art program is committed to help students acquire an appreciation for the importance of art and to develop the individual skills and understanding necessary for those who plan to enter an art field.

It is recommended that students wishing to pursue a career in art, plan with their art teacher as early as possible in order to outline a course of study for their portfolio preparation. A portfolio of artwork is expected for all students planning to enter the workforce as an artist, entering an art program or college, or for those students planning to concentrate their studies in a related field such as architecture, graphic design, computer animation, film or videography.

711 FOUNDATIONS IN DRAWING

(One Semester – 0.5 Credit)

This course provides instructions in the fundamentals of drawing. In this one semester course, a strong emphasis will be on building individual drawing skills through practice. Drawing techniques will provide students with tools for visual self-expression and artistic voice. Subjects will include natural specimens, still-life studies, perspective work, & portraiture. Students will explore a variety of mediums such as pencil, ink, pastel, and/or colored pencil. We will develop and maintain a sketchbook to document personal growth throughout the course.

713 FOUNDATIONS IN PAINTING

(One Semester – 0.5 Credit)

Foundations in color theory and painting techniques are the focus of this one semester course. Students will receive instruction in watercolor techniques and in the manipulation of tempera and acrylic paint. Paintings will be derived from observation and inquiry, with subjects including still life, natural objects, and landscape. Students will develop and maintain a portfolio which will document personal growth throughout the course.

730 CLAY AND 3-D DESIGN

(One Semester – 0.5 Credit)

This course is designed to allow students to work in relief and in the round, using clay, wire, foam-core, plaster, and found materials. Clay will be a primary focus in the class as students use various hand-building techniques and gain an understanding of the limits of clay through experimentation. A high standard of craftsmanship will be maintained throughout the course.

733 DIGITAL PHOTOGRAPHY

(One Semester – 0.5 Credit)

Digital Photography is an introductory course. Students will study the history of photography and learn the fundamentals of picture taking and digital imaging through the use of Adobe Photoshop and Lightroom. Students will demonstrate and develop self-expression and learn how to control the camera to communicate effectively through this medium. DSLR cameras will be provided for learning experiences during class time.

731 GRAPHIC DESIGN

(One Semester – 0.5 Credit)

This course is designed to provide instruction in visual communication. Focus will be on lettering styles and letterforms as used in logos, posters, and advertisements. This course will help students develop 2-dimensional compositional techniques and study the principles of design while creating logos, package designs, advertising layouts, and posters. Designs will be made by hand and through the use of computer programs including Adobe Photoshop and Illustrator.

732 MIXED MEDIA

(One Semester – 0.5 Credit)

This half-credit course focuses on personal artistic expression, ideation, and using the Elements of Art and Principles of Design and will do so through the use of a variety of media. Students will gain experience in both two and three-dimensional art forms. Art media may include but are not limited to collage, printmaking, copper-tooling, papier-mâché, digital art, paint, and relief sculpture.

741 ADVANCED PLACEMENT ART and DESIGN*

(Two Semesters – 1.0 Credit) **not offered in 2026-2027*

Prerequisite: Foundations in Drawing and/or Painting + Teacher Recommendation

AP Art and Design is a full year college level studio course for all serious students interested in inquiry-based thinking and making. This full year course will push students to conduct a sustained artistic investigation through practice, experimentation, and revision, guided by questions. Artists will skillfully synthesize materials, processes, and ideas and reflect on and communicate in writing about their work. Art portfolios will either focus on drawing concepts or 2-dimensional design. Portfolios will be submitted to the College Board in May for evaluation based on standardized scoring descriptors aligned with the skills and understandings developed in college foundations courses. Students in this course will be expected to complete a summer assignment to reinforce prerequisite skills.

****Students are required to complete summer work before the school year begins.***

747 ADVANCED PLACEMENT ART HISTORY

(Two Semesters – 1.0 Credit)

Prerequisite: Foundations in Drawing and/or Painting + Teacher Recommendation

Students will examine major forms of artistic expression from the past as well as the present and from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Museum field trips are a vital part of the curriculum. Writing assignments will focus on the critical analysis of works of art and architecture and will develop the students' ability to explain clearly and cogently what they understand about artistic works in the political, social, or philosophical context of the times. All testing in this course will model the rigorous AP style. If the student chooses not to take the AP exam in May, he or she will be required to take the final exam. All students enrolled in this course will be required to do summer reading and a project to demonstrate serious intent.

****Students are required to complete summer work before the school year begins.***

Business & Finance Technology

The East Haddam Public School District believes that Business and Finance Technology plays an increasingly important role in all aspects of our global society. Program emphasis is placed on developing students' knowledge of financial literacy in order to become productive and contributing members of society who are capable of economic self-sufficiency and lifelong learning.

Business and Finance Technology is a performance-based instructional program that contributes to the development of technological, academic, communication, and problem-solving skills. Business and Finance Technology provides valuable knowledge for students who plan to pursue a post-secondary education in the field of business or other career-related areas.

532 ACCOUNTING I

(One Semester – 0.5 Credit)

Did you know that Accounting is one of the most demanded careers and is expected to continue to grow, according to the Bureau of Labor Statistics? We look at the various opportunities available such as criminal investigation, entertainment and sports accounting, as well as the endless jobs that are available for Certified Public Accountants. You will learn the “language of business” and the foundation you need to go on to major or minor in Accounting, and eventually land your dream job working for one of the prestigious Big 4 accounting firms or any industry of your choice. Every company needs skilled accountants to manage their millions! This introductory course combines manual and computerized accounting methods and concepts used in small businesses across the nation. Students will learn how to set up and maintain financial records for a proprietorship using the complete accounting cycle.

537 ACCOUNTING II

(One Semester – 0.5 Credit)

Automated Accounting provides students with an opportunity to develop in-depth, practical knowledge of automated accounting techniques and procedures as applied in business. QuickBooks software will be utilized. The software is designed to handle general ledger, accounts payable, accounts receivable, financial statement analysis, bank reconciliation, plant assets, purchase-order processing and inventory control, sales order processing and inventory control, and payroll. The course also includes a section on investment to empower students to understand the impact of decisions on their financial future.

531 BUSINESS AND PERSONAL LAW

(One Semester – 0.5 Credit)

Are you interested in your legal rights and responsibilities as a member of society, as a minor, as a student, as a consumer and as a business manager? If so, then this is the course for you. Time

is devoted to the constitution, a review of why there are laws, how they are made, and the extent to which they affect our daily lives. Individual cases are studied in depth to provide the student with an appreciation of the subtleties of legal theory. Speakers from local business firms, law offices, and the police department may be used to supplement the course materials. The course culminates with a mock trial where students act as attorneys, jury members, and witnesses in the courtroom and a field trip to the courthouse.

548 CAREER PLANNING

(One Semester – 0.5 Credit)

This course is designed for students interested in exploring and preparing for a future career. Using self-reflection students will establish a career direction and an emphasis is placed on employability knowledge and skills. The course focuses on various academic, professional, and real-world disciplines while connecting learning with employment. Students strengthen and refine communication skills including writing, listening, speaking, and applying decision-making skills to problem solving activities. Personal marketing, finance, and computer proficiency are emphasized to prepare students for rewarding college and career opportunities. Job shadowing, internships, mentoring, and leadership skills are developed according to individual needs.

505 ENTREPRENEURSHIP

(One Semester – 0.5 Credit)

Have you ever thought about starting your own business? In this course, students will be able to discuss the advantages and disadvantages of going into business on their own, where to obtain various sources of capital needed to fund their enterprise and the need to maintain financial statements of their business activity. This course is particularly designed for those students who want to discover the world of entrepreneurship, examine entrepreneurship as a career, and use their creativity to write a business plan. They will also analyze various markets and their competitors, plan how to market their products or service, how to sell their product or service and keep records. This class will participate in starting and operating their own company during the course of the semester through participation in the Empowered or Junior Achievement Company Program.

504 PERSONAL FINANCE*

(One Semester – 0.5 Credit)

Will you know how to manage your money once you start earning it? Understanding and managing personal finances are key to your future financial success. This personal finance course gives students the essential knowledge and skills to make informed decisions about real financial issues. Students will learn to apply decision-making skills to set personal goals and to evaluate career choices, calculating paychecks and taxes, debt and credit management, as well as utilizing investment tools and risk management. You will learn the essentials of preparing for

financial decisions you will be encountering in your daily life at the present time or in the near future. Although open to all, this course is recommended for juniors and seniors.

**This course is a graduation requirement for students in the Class of 2027 and beyond.*

538 SPORTS AND ENTERTAINMENT MANAGEMENT*

(One Semester – 0.5 Credit)

This course introduces students to the dynamic worlds of sports and entertainment through the lens of business management. Students will explore how planning, organizing, staffing, directing, and controlling relate to sports, entertainment, event, and venue operations. Key topics include branding, sponsorships and endorsements, marketing communications, licensing and merchandising, ticket sales and event logistics, legal and ethical issues, financial planning, and career pathways in sports and entertainment industries. Through hands-on, project-based work—such as developing and executing a promotional plan for a sports or entertainment event—students build leadership, teamwork, communication, and strategic decision-making skills applicable to a wide range of careers.

** Pending Board of Education approval*

Engineering Technology

Technology education courses enable students to survey areas in which they have an interest, aptitude, or career aspiration. They provide an excellent opportunity to develop skills and to learn about industry and design technology. All courses emphasize Science, Technology, Engineering, and Math skills (STEM) through hands-on activities.

857 AGRICULTURE POWER, MECHANICS AND EQUIPMENT

(One Semester – 0.5 Credit)

This course is designed to provide students with the knowledge and skills that will enable them to attain practical experience in agriculture skills related to tractor driving and small engine maintenance and repair. Important components of this course include shop safety, tractor systems maintenance, driving and trailering, 2-stroke and 4-stroke engine operation, small engine disassembly and reassembly, related projects and career exploration.

849 ARCHITECTURAL DRAFTING AND DESIGN

(One Semester – 0.5 Credit)

Open to students in grades 9-12, this course will instruct students on how to use a CAD system to design, draft, and model a house and other small architectural projects. Work will be performed on the computer using Chief Architect software that has been designed to help students produce useful drawings and renderings with increased efficiency and precision. Students will receive instruction and hands-on experience in planning a design, drawing a floor plan, inserting doors, windows, fixtures, adding dimensions, and creating architectural drawings with a plot plan, floorplan, pictorial views, and building elevations. Students will be involved in an authentic learning activity demonstrating their skills for practical purposes.

839 AUTOMOTIVE AND TRANSPORTATION SYSTEMS

(One Semester – 0.5 Credit)

In this course, students will study how principles of science and engineering are used to make vehicles fly and go fast through hands-on activities. This includes designing, building, testing underwater remote-controlled vehicles, CO2 powered model cars, kites, and rockets. In this course, students will also get a foundation in basic consumer automotive maintenance and repair. We will study and compare the suspension, power transmission and steering systems on real vehicles in hands-on laboratory activities. Students will learn to perform basic diagnostics on vehicle electronic and mechanical systems. We will study the emerging technologies of autonomous driving, advanced internal combustion, and electric vehicles. Students will analyze popular cars based on their cost, efficiency, appeal, safety, and environmental impact. We will study how the innovations developed in motorsport affect the vehicles consumers operate on the road. Through this lens, students will assist in testing and developing the Electrathon vehicle.

807 COMPUTER AIDED MANUFACTURING

(One Semester – 0.5 Credits)

This course is open to all students with an interest in Computer Aided Manufacturing, the backbone of modern manufacturing systems. The course exposes students to the fundamentals of computerized manufacturing technology. Study is centered on key concepts of CAD/CAM software and converting computer-generated geometry into a program to drive CNC machines and 3D printers.

Students will have input into the project that the class completes, and each student will put their own custom spin on each project. The course will be taught using demonstration and discussion combined with individual and team-centered project-based learning. This course is recommended to students considering future STEM careers in engineering or the trade fields.

865 COMPUTER AIDED MANUFACTURING II

(One Semester – 0.5 Credit)

This comprehensive CNC course combining MasterCAM and Solidworks has been designed to prepare students for many careers in engineering and machine shop environments. Upon successful completion of this course, participants will be able to understand and apply Computerized Numerical Control technology (CNC) from basic to advanced applications. A follow up to Intro to Computer Manufacturing I, students in this course will use Solid Modeling to create tool paths for advanced machining and 3D printing projects.

813 INTRODUCTION TO CAD and 3D PRINTING

(One Semester – 0.5 Credit)

This course is open to all students. It will focus on hands-on skills required to create, edit, render, and test computer 3D solid models. It is designed for any student interested in mechanical engineering or working in the trades as career possibilities. Students taking this class will be introduced to Computer Aided Design by studying the design process, sketching, drafting principles, and geometric construction. The creation of multi-view drawings as well as solid modeling and assembling components will be covered. Using engineering software, students will evaluate designs by laser cutting and 3D printing and take part in the engineering design process to improve upon their initial designs. Students will be guided through instruction, demonstration, and hands-on activities while learning the essentials concerning the computer as a design tool and printing actual models from design ideas. Projects are used to reinforce concepts and provide practical design experience.

814 INTRODUCTION TO ENGINEERING

(One Semester – 0.5 Credit)

Introduction to Engineering is a course designed to prepare students to work on larger projects in Engineering and product design. Students will receive basic training in the design software and machines available at Hale-Ray and will create a product using different machines, materials, and techniques. This course is broken into four units each covering a different skill that will prepare students to work on Electrathon cars and other large scale projects. Units include CAD and 3D printing, Computer aided manufacturing and CNC machining, mold making/composites (carbon fiber) and or welding, and DC motors and controls.

829 MAKERSPACE

(One Semester – 0.5 Credit)

Makerspace is an advanced level course that is designed to allow students to combine the knowledge and skills gained in previous Technology and Engineering coursework. Students will use the Engineering and Design process to design and build a complex project of their choice. Over the course of the semester, students will practice effective communication as they provide feedback to each other in the design process. Projects will combine the use of multiple machines and technologies available in the NHRHS Tech Ed Labs, this includes CNC Machines, Laser Cutters, 3D printer, Water Jet Cutter, Sublimation Printer, Electrical Circuits, Arduino Programming, and 3D Animation.

811 ROBOTICS TECHNOLOGY

(One Semester – 0.5 Credit)

Embark on an exciting journey in Robotics Technology! This course delves into the dynamics relationships between science and technology, covering both fundamental and advanced robotics concepts. Students will engage in hands-on learning through lab experiments, collaborating in teams to research, design, construct, program, and test VEX-based mobile robots. Explore the current and future applications of automation technology in both industry and everyday life. Get ready to be at the forefront of technological innovation in this riveting class!

816 TV STUDIO PRODUCTION

(One Semester – 0.5 Credit)

This course is open to all students. This class will focus on the basic principles of broadcast journalism and techniques for television studio production. Emphasis will be on using a team approach to TV and video production, incorporating planning, preparing scripts, camerawork, lighting, audio, and other facets of TV and video. Students will become proficient at using our "Tricaster" video switching console, as well as PC-based editing software. Students will produce a regularly scheduled school news & information show using these skills.

830 ENGINEERING AND PRODUCT DESIGN TECHNOLOGY*

(Two Semesters – 1.0 Credit)

Prerequisite: Introduction to Engineering or teacher recommendation

**Offered alternating years, scheduled for 2027-2028*

Students will begin this course reviewing CAD (Computer Aided Drafting) and CAM (Computer Aided Manufacturing) principles learned in previous tech ed courses. This class will focus on the fundamentals of engineering design, and STEM. Students will learn and apply CAD engineering concepts to advanced projects that include but are not limited to such as the Electrathon vehicle and the NASA H.U.N.C.H. (High Schools United With NASA to Create Hardware) program, Boat building, and Electric outboard motor building. The course will be taught using demonstration and discussion combined with individual and team-centered project-based activities. Students will then fabricate an advanced product or electric vehicle. Past projects (vehicles) will be modified, tested, and evaluated leading up to the final state competition at Lime Rock Park. This class not only teaches manufacturing and fabrication skills, but also teamwork, communications, public relations, and engineering design.

826 S.T.E.A.M. GUITAR BUILDING*

(Two Semesters – 1.0 Credit)

**Offered alternating years, scheduled for 2026-2027*

This year long course links S.T.E.A.M. (Science, Technology, Engineering, Art, Math) concepts and manufacturing principles together. These principles culminate in a final product, a custom-made electric guitar. Each student enrolled in this class will build their own customized electric guitar as they are introduced to all that the Technology Education department has to offer. Students will spend time in class learning CAD (Computer Aided Drafting), woodworking, manufacturing, and soldering. Each guitar will have a component that is 3D printed, laser cut or engraved, and a part cut on a CNC (computer numerical control) machine. Students will use math to calculate the fret spacing and make a customized fretboard and use science to learn about sound waves when intonating their instrument and how to adjust the PH of water for swirl dipping their instrument. Each completed guitar will be as unique as the student who created it.

English Language Arts

The objectives for the English Language Arts in grades 9-12 are the progressive development of language skills in listening, speaking, reading, and writing as means of communication; the growth of literacy appreciation; and acquisition of a deeper understanding of human relationships and social values.

** Please note: All classes have summer reading expectations.*

013 FRESHMAN ENGLISH

(Two Semesters – 1.0 Credit)

Formerly known as Foundations of Literature I. Freshman English is designed to promote students' growth as active readers, informed thinkers, problem solvers, thoughtful writers, effective communicators, self-directed learners, and responsible citizens. Throughout this course, students will explore the concept of self-awareness through the examination of literature and will cultivate higher order thinking skills through the exploration of fiction and nonfiction works. They will also refine their writing skills through self-assessment and revision as they work collaboratively to promote heightened understanding of content. Freshman English places a heightened focus on the development of grammar skills and vocabulary, and empowers students to express original ideas and interpretations through a variety of methods.

014 ACCELERATED FRESHMAN ENGLISH

(Two Semesters – 1.0 Credit)

Formerly known as Accelerated Foundations of Literature I. The Accelerated Freshman English course requires more independent and self-directed work by students and will require the completion of reading and related work at home. Units will remain the same between Accelerated and Academic Freshman English, however, assignment criteria will be more rigorous and central texts may differ in this course.

023 SOPHOMORE ENGLISH

(Two Semesters – 1.0 Credit)

Formerly known as Foundations of Literature II. Sophomore English examines diverse cultures and time periods with an emphasis on acceptance and/or empathy. Reading assignments include both fiction and nonfiction in the form of novels, short stories, dramas, and poetry. As identified through the East Haddam District Competencies, students will continue to strengthen their ability to interpret, analyze, and evaluate a diverse range of texts in order to be critical and informed citizens; produce organized writing reflective of the task, purpose, and audience to be an effective communicator; apply correct grammar, proper usage, and purposeful word choice to communicate clearly when writing or speaking; and collaborate, listen, and present in order to acquire and share information, ideas, and opinions. Sophomore English focuses on

developing student self-advocacy and self-awareness as well as awareness of the world around him, her, or them.

024 ACCELERATED SOPHOMORE ENGLISH*

(Two Semesters – 1.0 Credit)

Formerly known as Foundations of Literature II. The Accelerated Sophomore English course requires more independent and self-directed work by students. The course will require inquiry and analysis-based learning as well as more independent work (i.e. homework).

** ACC Sophomore English is recommended for students planning to take AP English courses.*

034 JUNIOR ENGLISH*

(Two Semesters – 1.0 Credit)

Formerly known as American Literature. Junior English explores diverse works of fiction and nonfiction including plays, poetry, short stories, essays, speeches, and novels. Emphasis is placed on research and inquiry, literary and rhetorical analysis, as well as vocabulary acquisition. Students also cultivate their writing skills through feedback and revision. Through examination and collaboration, students identify thematic elements, author's purpose, and social commentary in a variety of complex texts. Student agency is emphasized through variety and choices; students are inspired to become more effective readers, thinkers, writers and communicators. Units are designed to develop and support original ideas and interpretations regarding works under study. As a junior level course, it is intended to prepare students for the rigor of 12th grade.

** Students are expected to complete summer work before the school year begins.*

036 ACCELERATED JUNIOR ENGLISH*

(Two Semesters – 1.0 Credit)

Formerly known as Accelerated American Literature. Accelerated Junior English explores diverse and complex works of fiction and nonfiction including plays, poetry, short stories, essays, speeches, and novels. Emphasis is placed on autonomous research and inquiry, literary and rhetorical analysis, as well as vocabulary acquisition. Through in-depth examination and meaningful collaboration, students identify thematic elements, author's purpose, and social commentary in a variety of complicated texts. Students will engage in feedback and revision to cultivate their writing skills. They are expected to be astute readers, critical thinkers, and skilled communicators. Units are designed to elicit original interpretations of works of study. As a junior level course, it is intended to prepare students for the rigor of 12th grade. In order to maintain placement in Accelerated Junior English, students must meet or exceed grade level expectations as defined by East Haddam District Competencies.

** Students are required to complete summer work before the school year begins.*

035 SENIOR ENGLISH

(Two Semesters – 1.0 Credit)

Formerly known as World Literature. The Senior English course is designed to improve and expand reading, grammar, writing, listening, and speaking skills in order to be effective communicators. Reading assignments include both fiction and nonfiction in the form of novels, short stories, and non-traditional text formats. Students' writing assignments are grounded in research, readings, and personal experiences. The focus of the course is to study a wide variety of literature to develop an appreciation for other cultures and to become inclusive, responsible citizens in a diverse world. In the first semester students explore their identities and reflect on their own learning process in order to identify gaps and make connections. After writing personal narratives, students explore human behavior and the impact of adversity on the individual. In the second semester, students explore the impact that society has on the individual and how the individual impacts society. As a senior level course and structured to prepare students for college and/or career post-secondary endeavors, expectations of students are at their highest.

037 ACCELERATED SENIOR ENGLISH

(Two Semesters – 1.0 Credit)

Formerly known as Accelerated World Literature. The Accelerated Senior English content is similar to that of Academic Senior when examining the overview of the curriculum. The greatest difference is that the accelerated course requires more independent and self-directed work by students and will require a deeper exploration of analysis by bringing in multiple perspectives.

044 ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION*

(Two Semesters – 1.0 Credit) Grades 11-12

Prerequisite: Teacher Recommendation

The AP English Language and Composition course cultivates the reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students do in the course should deepen and expand their understanding of how written language functions rhetorically: to communicate writers' intentions and elicit readers' responses in particular situations. The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they "read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods. College Course Equivalent, the AP English Language and Composition course, aligns to

an introductory college-level rhetoric and writing curriculum” (**English Language and Composition Course Description College Board 2019**). Students who meet the College Board criteria may receive advanced placement and/or credit at many colleges and universities.

**** Students are required to complete summer work before the school year begins.***

045 ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION*

(Two Semesters – 1.0 Credit) Grades 11-12

Prerequisite: Teacher Recommendation

AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Students are taught skills to decipher and analyze complex multiple-choice questions. For this, students are given a passage of writing and asked to respond to a set of prompts and questions based on the passage. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

**** Students are required to sign a course contract outlining expectations before the end of the previous school year. In addition, students are required to complete summer work before the school year begins.***

081 CREATIVE WRITING

(One Semester – 0.5 Credit)

Creative writing is designed to cultivate students' ability to express their unique perspectives in written form, to find one's voice as a writer. Students will engage in writing, reflection and revision, and collaborate with other students to strengthen their work. Students will bolster their writing skills through creative pieces such as personal narratives, poetry, short stories, plays, and satire. Areas of focus will include vocabulary acquisition and literary elements such as point of view, structure, and characterization. In addition, students will be strongly encouraged to submit their work to writing contests in order to explore the publication process for professional writing.

080 JOURNALISM

(One Semester – 0.5 Credit)

Individuals continue to depend on the mass media to spread the word about events and people of interest to the general public. Journalism introduces students to the exciting world of print, online and broadcast media. Students focus on learning their voice and expressing their opinions. Ethics, and the history of journalism will complement the major units of study: reporting, writing, editing, advertising, design, management, and teamwork.

808 PUBLIC SPEAKING

(One Semester – 0.5 Credit)

Public Speaking leads students to appreciate and cultivate the art of communication, which is critical to their success in the 21st Century. Through this course, students will acquire the skills necessary to construct and deliver impromptu, informative, demonstrative, and persuasive speeches. In addition, students will analyze various speeches to sharpen their presentation skills. Public Speaking emphasizes collaboration through the constructive exchange of ideas and sharing of feedback.

Family and Consumer Sciences

The Family and Consumer Sciences Department is designed to help students prepare for the challenges they will face as individuals, consumers, and family members in their changing world. This curriculum offers opportunities to integrate academic skills with problem-solving strategies and hands-on application. Participation in these courses will help students to develop effective communication skills, demonstrate decision-making processes individually and as part of a group, and to recognize employment opportunities. The Family and Consumer Sciences courses will help to prepare students to face the challenges as they make the transition from students to young adults.

804 UCONN ECE - INDIVIDUAL AND FAMILY DEVELOPMENT (HDFS 1070)*

(Two Semesters – 1.0 Credit, 3.0 UConn Credits) Grades 11 & 12

** Offered alternating years, scheduled for 2026-2027*

Early College Experience Individual & Family Development is a college-level course with a primary focus on human development throughout the lifespan, with emphasis upon the family as a primary context. In particular, the course emphasizes the developing individual within the context of the family system and the changes that occur in family systems over time. Each student is required to complete 40 hours of independent fieldwork. This introduction to the field of family development is particularly helpful for those considering a career in education, medicine, psychology, or social work. Since the course meets the standard of a general education course (HDFS 1070) at the University of Connecticut, students can earn three college credits for successful completion of the course.

841 CLOTHING AND DESIGN

(One Semester – 0.5 Credit)

Clothing and Design is an introductory course. Students study the principles of design and apply them to the areas of textiles, clothing, and interior design. The fundamental hand sewing skills are taught and applied to a product of choice. How to care for and use a sewing machine and serger are put to use as students create a garment, accessory, or home furnishing. This course is designed to incorporate students with a variety of skill levels, as students choose their projects to create. Bring your problem-solving skills and creativity to this class.

842 CULINARY ARTS I

(One Semester – 0.5 Credit)

Culinary Arts I is designed to introduce the fundamental food preparation terms, concepts, and methods. Students work collaboratively in the food labs practicing the techniques, skills, and terminology incorporating kitchen safety, sanitation, measuring, equipment selection and maintenance and time management. Students learn how to prepare, store, and select the following: quick and yeast breads, grains, and fruits and vegetables. Communication,

collaboration and problem-solving skills will be used throughout the course. This course is required for Culinary Arts II.

843 CULINARY ARTS II

(One Semester – 0.5 Credit)

Culinary Arts II explores connections between food and various world cultures. Students will explore the history and topography as it relates to each region's dietary customs, cuisine and cooking methods. Culinary, geographical, and cultural traditions including Latin America, the Mediterranean, Europe, and Asia will be examined and applied through hands-on practice. This cultural approach allows students to appreciate the diversity of meal patterns and food habits that are enjoyed by different cultures. An opportunity to investigate careers related to foods and nutrition are also part of the curriculum. Teacher recommendation is needed.

846 CULINARY ARTS III

(One Semester – 0.5 Credit) Grades 11 & 12

Culinary Arts III allows students to develop skills and techniques needed for success in the restaurant and food service industries. Students will be involved in class cooking competitions as well as culinary opportunities to cater for school and community events. Students will use the food preparation skills, meal-planning techniques, and nutritional knowledge experienced in Culinary I and II to form a basis for advanced study in a career-based culinary class. This course is designed for juniors and seniors who have successfully completed Culinary I and II with teacher recommendation.

844 CHILD DEVELOPMENT

(One Semester – 0.5 Credit)

This course is designed to teach the principles of child growth and development from conception through age three. You will learn how to meet children's physical, social, emotional, and intellectual needs. The roles and responsibilities of parenting are examined, including family planning, pregnancy, prenatal care, and childbirth. Any student interested in a career in the field of teaching/education, health/medicine, social work, psychology, and childcare will benefit from this course along with anyone who will be involved in the life of a child.

847 PROFESSIONAL BAKING

(One Semester – 0.5 Credit)

Prerequisites: Teacher Recommendation

This course is open to students in grades 10-12 with recommendations. Professional baking is a hands-on food lab class, for students interested in pursuing Pastry and Baking as a future career and/or learning techniques for personal use. Students will work both independently and collaboratively with their food lab groups. Throughout the semester students will learn both the

science and art of baking. Food products prepared include bakery quality quick breads, cookies, cakes and pastries. Plating and cake decorating will also be incorporated.

Health

620 HEALTH I

(One Semester – 0.5 Credit)

Health I is designed to enable students to take responsibility for their actions regarding health. Our curriculum stresses healthy choices and decision making. The program teaches students the skills necessary to weigh options, make responsible decisions and to develop behaviors that promote healthy and balanced lifestyles. Instructional units include mental and social health, human growth and development, suicide prevention, substance use and abuse.

621 HEALTH II

(One Semester – 0.5 Credit) Grades 11 & 12

Health II will build upon prior health instruction by having students apply their prior knowledge through student-centered, project-based learning that provides student choice and self-direction. Students will learn and practice strategies for decision making, advocacy, accessing information, and analyzing influences. Topics explored throughout the one semester include physical activity/exercise, nutrition, communicable and noncommunicable diseases, First Aid, CPR, and healthy relationships.

Mathematics

The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problems.

A graphing calculator is highly recommended for all math courses.

210 ALGEBRA I

(Two Semesters – 1.0 Credit)

This course emphasizes algebraic language, structure, concepts, and skills. Major topics include simplifying algebraic expressions, solving equations and inequalities, functions and their graphs, linear equations and inequalities, systems of equations and inequalities, operations on polynomials, factoring polynomials, and quadratic functions. There is an emphasis on applying algebraic thinking to real world problems.

213 ACCELERATED ALGEBRA I

(Two Semesters – 1.0 Credit)

This accelerated course emphasizes algebraic language, structure, concepts, and skills at a faster pace and with greater depth. Major topics include simplifying algebraic expressions, solving equations and inequalities, functions and their graphs, linear and exponential relationships, systems of equations and inequalities, operations on polynomials, factoring, and quadratic functions. Students will engage in more complex problem-solving, explore enrichment topics, and apply algebraic thinking to real-world and multi-step situations. This course is designed for students who demonstrate strong mathematical readiness and are prepared for a rigorous, challenging learning environment.

230 INTEGRATED APPLIED ALGEBRA

(Two Semesters – 1.0 Credit)

Integrated Applied Algebra is a course that focuses primarily on financial and real world applications of mathematics. Students will investigate the application of mathematics in real world situations. Students will learn to use formulas and equations for angles, triangles, and polygons in Geometry to build a structure. Extending their understanding of measures of central tendency, students will create visuals and tables in order to determine probabilities and make predictions. Students will learn to work with equations of lines and segments on the coordinate plane as well as polynomials. This class furthers mathematical concepts and computational skills using practical business applications such as bank services, payroll, annuities, stocks and bonds, and business and consumer loans; important financial literacy skills to manage aspects of personal finance and independent living.

223 GEOMETRY

(Two Semesters – 1.0 Credit)

In this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways both formal and informal that their conclusion follows logically from their hypothesis. Students will justify geometric relationships and properties of geometric figures. Congruence and similarity of triangles will be established using appropriate theorems. Coordinate geometry will be used to establish and verify geometric relationships. Properties of triangles, quadrilaterals, polygons, and circles will receive particular attention. It is intended that students will use traditional tools of straightedge and compass as well as geometry software to assist in investigations. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics.

224 ACCELERATED GEOMETRY

(Two Semesters – 1.0 Credit)

This course utilizes mathematical proof in the development of geometric concepts and properties. It includes all topics taught in Geometry (above) as well as other enrichment topics. Accelerated courses are appropriate for students who are prepared to move through the college preparatory curriculum at a deeper and/or accelerated pace. This course is for motivated mathematics students who have demonstrated above-average ability and interest in mathematics.

233 ALGEBRA II

(Two Semesters – 1.0 Credit)

Topics in this course incorporate concepts that were mastered in Algebra I. The study of functions is continued, and higher-order analysis of these functions will be covered: quadratic, inverse, polynomial, radical and rational. The use of graphing calculators to solve real-world applications is integrated into this course.

234 ACCELERATED ALGEBRA II

(Two Semesters – 1.0 Credit)

Accelerated Algebra II focuses on problem-solving skills that use a variety of methods to encourage the development of improved communications skills and foster a deeper understanding of the content area. All Algebra II concepts (above) will be covered in this course at increased levels of analysis, academic rigor, and application. This course is designed for students who have demonstrated above-average ability and interest in mathematics.

235 PROBABILITY AND STATISTICS*

(Two Semesters – 1.0 Credit)

This course is designed to provide a basic understanding of descriptive and inferential statistics. Elementary statistical concepts of collecting, organizing, and interpreting numerical data are studied and applied to real life situations. Students examine relationships between variables using correlations and least square regressions. They calculate the probability of simple and compound events and learn to estimate with confidence, explore tests of significance, and evaluate the validity of statistics. Graphing calculators are used extensively to investigate concepts and to aid in lengthy calculations.

** A graphing calculator is required for this course.*

236 ADVANCED PLACEMENT STATISTICS*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentations: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation, and Statistical Inference: Estimating population parameters and testing hypotheses.

** A graphing calculator is required for this course.*

**** Students are required to complete summer work before the school year begins.**

244 PRECALCULUS*

(Two Semesters – 1.0 Credit)

This course is intended for students who have successfully completed Geometry and Algebra II. Its purpose is to prepare students for a study of Calculus. The topics covered include analytic geometry, trigonometry, conic sections, and an in-depth analysis of graphs and the relation between equations and graphs. Additionally, students will explore a variety of functions including exponential, logarithmic, rational, and radical, and trigonometric.

** A graphing calculator is required for this course.*

247 ADVANCED PLACEMENT PRECALCULUS*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

In AP Precalculus, students explore everyday situations and phenomena using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever changing world. AP Precalculus prepares students for other college-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

** A graphing calculator is required for this course.*

*** Students are required to complete summer work before the school year begins.*

245 ADVANCED PLACEMENT CALCULUS AB*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

Students in this course will continue their study of various Precalculus topics, such as functions, graphs, and trigonometric functions. The course is fast-paced and requires students to do much of the reviewing of these topics on their own. The course focuses on the concept of limits, derivatives and their applications, inverse functions, integration and applications of integrals. The course is intended to prepare students for the Advanced Placement Exam. If the student chooses not to take the AP Exam in May, he or she will be required to take the final exam. Students who meet College Board criteria may receive advanced placement and/or credit at many colleges. Students in this course will be expected to complete a summer assignment to reinforce prerequisite skills. This course has required summer work.

** A graphing calculator is required for this course.*

*** Students are required to complete summer work before the school year begins.*

246 ADVANCED PLACEMENT CALCULUS BC*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

Students in this course will continue their study of various Precalculus topics. This course covers the same content as AP Calculus AB with some additional topics. While AP Calculus AB is approximately equal to 1.5 semesters of a typical sequence of college Calculus courses, AP Calculus BC is approximately equal to two full semesters of college Calculus. The additional topics include series, vectors and parametric equations. The course is intended to prepare students for the advanced placement exam.

** A graphing calculator is required for this course.*

*** Students are required to complete summer work before the school year begins.*

Music

701 BAND

(Two Semesters – 1.0 Credit) Grades 9-12

This instrumental performing organization emphasizes the quest for excellence in self-expression. As a member of the band, each student plays an integral part of the total ensemble experience. Band students will have many performance opportunities such as formal winter and spring concerts, chamber music, as well as taking part in promoting school spirit. “There is no truer truth attainable by man than comes from music.” Robert Browning

750 BEGINNING BAND

(One Semester – 0.5 Credit) Grades 9-12

This concert band class is designed to be an introductory class to instrumental music. Any student who would like to begin a band instrument, re-start a band instrument, or a current band student who wants to try a second band instrument, this is the class for you. Upon completion of this class, students who desire to may be ready to join the Symphonic Band for second semester.

703 CONCERT CHOIR

(Two Semesters – 1.0 Credit) Grades 9-12

Do you want a safe place where you feel you matter? Do you want to have fun and create beauty with friends? The Concert Choir at Hale-Ray provides a safe, caring environment and is open to all students. No prior singing experience is necessary. There is a place for all students to learn and grow through music in this class. Choir students will have many performance opportunities such as winter and spring concerts, chamber music, as well as taking part in promoting school spirit. Participation in evening concert performances is mandatory. “Music. A magic beyond all we do here.” J.K. Rowling

704 SELECT CHOIR

(Two Semesters – 1.0 Credit)

Trillium is a mixed choir of men and women’s voices. A high level of musical ability is required, and acceptance into this group is based on a rigorous audition process. Auditions are held in February and are open to those students enrolled in a high school ensemble for credit (band or choir) in grades 9 – 11. Trillium performs many times during the school year for school concerts and for the community. Members need to be flexible about adding performance dates to their schedules.

706 MUSIC THEORY

(One Semester – 0.5 Credit)

This introductory course emphasizes the basic principles of music; note reading, rhythm reading, major scales and intervals are studied. Students will have opportunities to discover music composition techniques in combination with music technology. Piano skills will also be explored.

715 UCONN ECE - FUNDAMENTALS OF SIGHT-SINGING AND EAR TRAINING (MUSI 1011)

(One Semester – 0.5 HR Credit, 3 UConn Credits)

ATTENTION ALL COLLEGE BOUND STUDENTS, THIS ECE COURSE IS A GENERAL STUDIES COURSE AND WILL COUNT AS AN ELECTIVE TOWARD YOUR DEGREE PROGRAM. This is a great opportunity to not only say “I am a UCONN student,” but also earn 3 college credits that will apply to all majors. This is a faster-paced class designed to understand why music sounds the way it does. Key signatures, major and minor keys, intervals, piano skills, techniques of ear training and basic composition will be explored. Fundamental operations of music will be taught with the emphasis placed on practical application. Experience in band or chorus would be helpful.

716 UCONN ECE - MUSIC APPRECIATION (MUSIC 1001)

(One Semester – 0.5 HR credit, 3.0 UConn Credits)

ATTENTION ALL COLLEGE BOUND STUDENTS, THIS ECE COURSE IS A GENERAL STUDIES COURSE AND WILL COUNT AS AN ELECTIVE TOWARD YOUR DEGREE PROGRAM. This is a great opportunity to earn 3 college credits that will apply to all majors and say “I am a UCONN student”. The class will also count towards a music minor. This is a UCONN accredited class designed to discover the history of Western Music starting with Gregorian Chant through 20th Century music. This class content moves through the development of Western Music in order for students to understand how music changed over time in reflection of politics, religion and the human experience. If you love history, this is a great class for you.

717 UNDERSTANDING THE INFLUENCE OF MUSIC

(One Semester – 0.5 Credit)

Understanding the Influence of Music is an exploratory course that focuses on how music is influenced by society, as well as how society influences music. This is done through lots of music listening as well as taking a deeper look at style of music and the people who create those styles. Topics include: Hip Hop, Country Music, Women in Music, Motown, and more. Student interest in music topics will be taken into account when designing the content of the class each semester.

082 21st CENTURY THEATER

(One Semester – 0.5 Credit)

21st Century Theater is a survey course that introduces students to the exciting world of the theater. It covers key aspects of the performing arts including acting, interpretation, and production. The course consists of four units: Finding Self; Interpreting Drama, in which students interpret and perform works in order to develop and polish their acting skills; Appreciating Drama, in which students learn about the structure and varieties of drama; Producing Drama, in which students learn how to take an original playwright's script to its final presentation.

Physical Education

601 PRINCIPLES OF FITNESS

(One Semester – 0.5 Credit)

The goal of this required class is to increase student awareness of and participation in activities that promote personal physical wellness. Concepts of cardiovascular fitness, muscular strength and endurance, and body composition will be among the topics of this course. Students will be introduced to a variety of methods in achieving fitness including jogging, strength training, aerobic exercises, and a variety of introductory sports.

604 LIFETIME FITNESS ACTIVITIES

(One Semester – 0.5 Credit)

The goal of this elective is to introduce the student to a variety of low-impact lifetime individual and team activities that promote personal physical fitness. Focused on a wide variety of activities, students will participate in a walking program, golf, Frisbee games, slow pitch softball, kickball, badminton, pickleball, shuffleboard, bowling as well as others. Concepts, skills, and opportunities will all be presented. Students will be assessed on their daily participation and effort.

615 STRENGTH AND CONDITIONING TRAINING

(One Semester – 0.5 Credit)

The Strength & Conditioning Training class is designed to encompass a variety of training methods to stimulate muscular strength, muscular endurance, cardiovascular conditioning, and work capacity. The class also seeks to teach students skills and techniques that can be used throughout a lifetime to enhance individual physical fitness. A variety of methods will be incorporated including core training, distance running, sprints, weightlifting, plyometric training, stretching exercises, CrossFit, and circuit training workouts. Students will take a fitness test at regular intervals throughout the semester. This test will consist of exercises that measure muscular strength/endurance, core strength/endurance, and cardiovascular endurance. This regular monitoring of endurance and strength will allow students to see gains and make adjustments if needed.

602 TEAM SPORTS

(One Semester – 0.5 Credit)

The goals of this class are to increase student knowledge related to team sports and to motivate students to use team sports to help maintain and attain a healthy lifestyle. This class will cover the basics of sport skills and fundamental organization and rules of play. Concepts of teamwork, sportsmanship, along with an appreciation of sport history, will be covered in these classes to increase students' understanding and appreciation of the unique challenges and benefits of

each sport. Results will be evaluated using student skill testing, written testing, and an evaluation of their daily participation and effort. Sports covered include basketball, flag football, soccer, softball, ultimate Frisbee, floor hockey, badminton, speedball, pickleball, volleyball, team handball, lacrosse, as well as others.

605 UNIFIED PHYSICAL EDUCATION

(One Semester – 0.5 Credit)

This course combines students of all abilities to participate in developmentally appropriate physical fitness and sport activities. Unified Sports is an inclusive team sports-based program that unites individuals with disabilities and individuals without disabilities as teammates. The course will cover the rules and regulations of the game while emphasizing sportsmanship, compassion, and teamwork. Students will work together to increase competence and confidence in a variety of physical activities. Students who enroll in this class are eligible and welcome to participate on the Unified Sports team, with appropriate athletics forms submitted. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

Science

311 INTEGRATED PHYSICAL SCIENCE

(Two Semesters – 1.0 Credit) Grade 9

This course introduces students to the study of earth science, environmental science, and physical science. These topics are presented through a variety of means including labs, readings, research projects, and discussion. Students will develop their scientific knowledge, problem solving techniques, and critical thinking skills.

322 BIOLOGY

(Two Semesters – 1.0 Credit)

This course introduces students to the study of living organisms. There is considerable emphasis on scientific inquiry, critical thinking, and application of science concepts. Students will read scientific texts, complete inquiry labs, write scientific claims, and complete a variety of projects. Topics that are covered in depth include cell biology, genetics, evolution, and ecology.

323 ACCELERATED BIOLOGY

(Two Semesters – 1.0 Credit)

This course introduces students to the study of living organisms. There is considerable emphasis on scientific inquiry, critical thinking, application of science concepts, and vocabulary development. Students will read complex scientific texts, complete inquiry labs, write scientific claims, and complete a variety of projects. Topics covered in depth include cell biology, genetics, evolution, and ecology. In this accelerated course, students are expected to be independent learners, should expect more course work, and are expected to exhibit a greater depth of knowledge.

326 FORENSIC SCIENCE I

(One Semester – 0.5 Credit) Grades 11 & 12

Forensic Science is the use of science and technology to investigate and establish facts in legal proceedings. Forensic Scientists study physical, chemical and biological categories of evidence. This is a hands-on lab-based course that is designed to improve observation and problem-solving skills. Authentic assessments are used in the following units of study: Crime Scene Analysis, Fingerprints, Hair and Fiber, DNA, Fingerprinting, and Blood Analysis. Students learn to analyze different types of evidence, are given evidence to examine and then must write reports using this evidence.

327 FORENSIC SCIENCE II

(One Semester – 0.5 Credit) Grades 11 & 12

Forensic Science is the use of science and technology to investigate and establish facts in legal proceedings. Forensic Scientists study physical, chemical and biological categories of evidence. This is a hands-on, lab-based course that is designed to improve observation and problem-solving skills. Authentic assessments are used in the following units of study: toxicology, forgery, death, forensic anthropology, casts and impressions, tool marks, glass, and ballistic analysis. Students learn to analyze different types of evidence, and to write reports using this evidence.

328 ANATOMY AND PHYSIOLOGY

(Two Semesters – 1.0 Credit)

Anatomy and Physiology studies the structure and function of the human body. This course will include a yearlong program of intense human anatomy and physiology studies. The content will center on anatomical terminology, anatomical details of the various body systems, and the physiological events that lead to daily body functioning. The areas covered will include medical terminology, and systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary, and reproductive). Laboratory work will be required, including dissection of certain animal organs and dissection of a cat.

333 CHEMISTRY

(Two Semesters – 1.0 Credit)

This course introduces students to the study of matter and energy. It emphasizes basic theory and traditional laboratory procedures. Examples of topics included in the course are atomic theory, periodic law, bonding, intermolecular forces, and chemical and nuclear reactions. Throughout this course, students will perform laboratory activities to observe phenomena. Therefore, there is emphasis on data collection, data analysis and claim writing, in addition to other classroom activities and projects. Students will develop their scientific knowledge, problem solving techniques, and critical thinking skills.

335 ACCELERATED CHEMISTRY

(Two Semesters – 1.0 Credit)

In Chemistry, we explore the behavior of matter by understanding atomic structure. This course includes the inquiry into basic theory and laboratory experiences that enhance understanding of the concepts covered. Examples of topics included in the course are atomic theory, periodic law, bonding, intermolecular forces, and chemical and nuclear reactions. Students will be asked to problem solve, attend to precision, use analytical equipment, and interpret data. In an accelerated course, students are expected to be independent and serious learners, and to seek help from multiple resources when necessary, as topics are explored at a faster pace and with greater depth. In addition, students are expected to write detailed lab reports.

341 PHYSICS

(Two Semesters – 1.0 Credit)

Physics is designed to give students an understanding and appreciation of the laws of Physics and how they are experienced in everyday life. Students will use math daily in order to predict the physical behavior of moving objects. The topics covered include kinematics, Newton's laws of motion, conservation of momentum, conservation of energy, thermodynamics, electricity, magnetism, and waves. Numerous labs and projects are included in the curriculum in order to enhance the student's understanding of fundamental concepts covered. Students will be asked to problem solve, use analytical equipment, and interpret data. Therefore, this course requires an understanding of math, which includes linear functions.

343 ACCELERATED PHYSICS

(Two Semesters – 1.0 Credit)

Physics is designed to give students an understanding and appreciation of the laws of Physics and how they are experienced in everyday life. The topics covered include kinematics, Newton's laws of motion, conservation of momentum, conservation of energy, thermodynamics, electricity, magnetism, and waves. Numerous labs and projects are included in the curriculum in order to enhance the student's understanding of fundamental concepts covered. Students will be asked to problem solve, attend to precision, use analytical equipment, and interpret data. In an accelerated course, students are expected to be independent learners and to seek help from multiple resources when necessary, as topics are explored at a faster pace and with greater depth. In addition, more homework and lab work will be assigned. This course is designed for competitive, college bound students who have a strong understanding of mathematics, including trigonometry.

346 ADVANCED PLACEMENT BIOLOGY*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

** Offered alternating years, scheduled for 2026-2027*

Advanced Placement Biology is a survey course of biological science equivalent to the introductory biology course for science majors taught at the university level. AP Biology covers topics in greater depth and at a much faster pace than the Biology course. There is a heavy emphasis on science as inquiry and discovery; thus, a great deal of time is spent performing laboratory investigations. Advanced Placement Biology is a course designed for the highly motivated and hard-working student. The textbook, laboratories, course content, and depth of material are all college level. Students interested in an opportunity to vastly expand their knowledge of the biological sciences, to hone their laboratory skills and scientific writing, and to develop skills, habits, and knowledge that will prepare them for success at the university level are encouraged to enroll in the course. The AP Biology curriculum covers all of the topics set forth by the College Board including molecules and cells, transport, energy, communication, inheritance and molecular genetics, gene regulation, biotechnology, evolution, and ecology. Students are expected to work independently on much of the material. All students enrolled are expected to take the AP Biology exam administered in May. Students who meet the College Board criteria may receive advanced placement and/or credit at many colleges.

** Students are required to complete summer work before the school year begins.*

332 ADVANCED PLACEMENT CHEMISTRY*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

** Offered alternating years, scheduled for 2027-2028*

Advanced Placement Chemistry follows a syllabus established by the College Board, based on a college introductory chemistry course. It is intended to expose students to sophisticated chemical principles and concepts and advanced laboratory techniques. The central objective of the course is for students to connect the macroscale (the scale at which they observe phenomena) to the nanoscale, (the scale at which atoms and molecules interact). The following topics are studied in depth: atomic and molecular structure; bonding, reactions and stoichiometry; thermodynamics; gases and intermolecular forces; kinetics; general, solubility and acid-base equilibrium. Students must be highly motivated as this is a fast-paced, rigorous course. Evaluation is based on progress relative to all learning tasks, including homework, classroom performance expectations, lab reports and tests. At the end of the year, students are expected to take the Advanced Placement Examination. Depending on the college or university, credit may be awarded for a score of 3 or better on the AP exam (The credit policy differs by institution. Check a specific school for its credit policy guidelines).

** Students are required to complete summer work before the school year begins.*

353 ASTRONOMY

(One Semester – 0.5 Credit) Grades 10-12

This course will introduce students to the study of astronomy. Topics of study include significant historical discoveries, optics and astronomical instruments, our solar system and the mathematics governing the orbiting planets, and the lifecycle of stars. Embedded in each of these topics will be laboratory investigations and research projects to enhance student understanding.

Social Studies

104 INTRODUCTION TO SOCIAL STUDIES

(One Semester – 0.5 Credit) Grade 9

This course is designed to introduce students to the basic concepts of geography, anthropology, media literacy, and economics. Students will explore how geography affects the way people live, learn how human culture influences our behavior using anthropological theories, develop media literacy skills by analyzing the impact media has on our thinking, and analyze how economic forces shape society.

102 MODERN WORLD HISTORY

(Two Semesters – 1.0 Credit) Grade 10

Modern World History examines the effects of global interaction throughout history and today with an emphasis on differing perspectives. Students will analyze how a variety of significant historical events are interrelated and dependent upon one another, such as the Columbian Exchange, the spreading of ideas, the world wars, and the United Nations. Students will engage with and learn about the content through independent inquiry, simulations, music, and a variety of other sources.

103 ACCELERATED MODERN WORLD HISTORY

(Two Semesters – 1.0 Credit) Grade 10

The accelerated Modern World History course requires more independent and self-directed work by students in addition to the aforementioned Modern World History Class.

132 UNITED STATES HISTORY

(Two Semesters – 1.0 Credit) Grade 11

United States History begins with the period of The Gilded Age and explores the United States as a developing world power. The focus of this course provides students with a framework for studying political, social, economic, and cultural issues, and for analyzing the impact these issues have had on American society. Students will gain experience in interpreting primary sources and exploring and evaluating divergent viewpoints. The goal of the course is to make connections between the past and present, which will help students further their appreciation for the unique history of the nation.

131 ACCELERATED UNITED STATES HISTORY

(Two Semesters – 1.0 Credit) Grade 11

The Accelerated U.S. History course requires more independent and self-directed work by students in addition to the aforementioned United States History Class.

145 ADVANCED PLACEMENT U.S. HISTORY*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

Students who elect to take this course will pursue an intensive study of the historical growth of the United States from the 1600s to present day. Students will explore and analyze the economic, cultural, intellectual, social, diplomatic and political history of our country. In addition to studying the United States from its beginnings, there will be extensive focus on the documents upon which our government is built and the diplomatic implications for the United States as a world power.

The course focuses on developing critical and analytic skills through the reading of primary and secondary sources. Reading, research, discussion, and persuasive writing are key activities of the course. The course is taught at the college level. Students will practice for the Advanced Placement exam in U.S. History, which will be administered in May of each year. Students who meet the College Board criteria may receive advanced placement and/or credit at many colleges.

**** Students are required to complete summer work before the school year begins.***

146 AMERICAN GOVERNMENT & CIVICS

(One Semester – 0.5 Credit) Grade 12

The class is designed to provide students with a basic understanding of how the United States Government works. Students will study the U.S. Constitution as a basic framework for this understanding. Emphasis will be placed on federal, state, and local government and how they form the basic pattern for American representative democracy. In addition, students will analyze the concept of citizenship and how democracy entails not only the rights, but also the responsibilities of citizenship. Finally, students will explore the workings of the U.S. economic system and foreign policy. This course is required for all grade 12 students.

136 ADVANCED PLACEMENT U.S. GOVERNMENT and POLITICS*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. Students will also engage in disciplinary practices that require reading and interpreting data, making comparisons and applications, and developing evidence-based arguments.

**** Students are required to complete summer work before the school year begins.***

117 ADVANCED PLACEMENT EUROPEAN HISTORY*

(Two Semesters – 1.0 Credit) Grades 10-12

Prerequisite: Teacher Recommendation

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time.

The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

**** Students are required to complete summer work before the school year begins.***

112 AFRICAN AMERICAN/BLACK AND PUERTO RICAN/LATINO STUDIES

(Two Semesters – 1.0 Credit) Grades 11 & 12

The course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, national, and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference, map economic and racial disparities over time, strengthen their own identity development, and address bias in their communities.

142 CONTEMPORARY ISSUES

(One Semester – 0.5 Credit)

This course is designed to provide students with opportunities to explore the current social and political issues of our 21st Century world. Emphasis is placed on an analysis of real-world issues that have a direct impact on students' lives. Students focus on improving writing and vocabulary skills as a means of understanding important issues and communicating their ideas and opinions to others.

133 PSYCHOLOGY

(One Semester – 0.5 Credit) Grades 9-12

This course is designed to introduce students to the scientific study of behavior and mental processes of the individual. Students will gain insight into the history, theories, and practices of psychology, and students will explore the various aspects of the human psyche. Topics covered include consciousness, learning and language, development, memory, thinking and intelligence, motivation and emotion, personality and psychological disorders, and therapy.

134 ADVANCED PLACEMENT PSYCHOLOGY*

(Two Semesters – 1 Credit) Grades 10-12

Prerequisite: Teacher Recommendation

AP Psychology introduces students to the systematic and scientific study of human and animal behavior and mental processes. Students explore major psychological subfields and gain a solid understanding of the key facts, principles, and phenomena that define the discipline. The curriculum covers the major areas of psychology, with each area comprising approximately 15–25% of the course content. These areas include the biological bases of behavior, cognition, development and learning, social psychology and personality, and mental and physical health. The course also emphasizes the ethical standards and research methods used by psychologists in both scientific and applied settings.

Because this is a college-level course, students should expect a rigorous workload comparable to an introductory college psychology class. Throughout the year, students will apply psychological perspectives, theories, concepts, and research findings; evaluate qualitative and quantitative research methods and study designs; and interpret psychological data presented in tables, graphs, charts, and other visual representations. Students will also develop and support psychological arguments using evidence-based reasoning.

In addition, students will engage in ongoing preparation for the AP Psychology Exam, administered each May. Those who meet College Board performance criteria may qualify for advanced placement and/or college credit at many institutions.

**** Students are required to complete summer work before the school year begins.***

143 SOCIOLOGY

(One Semester – 0.5 Credit) Grades 11 & 12

This course is designed to introduce students to the sociological study of society. Sociology focuses on the systematic understanding of social interaction, social organization, social

institutions, and social change. Students will examine the major themes in sociological thinking including the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life.

135 WOMEN'S STUDIES

(One Semester – 0.5 Credit) Grades 11 & 12

Women's Studies is an introductory semester-long course about the history of women's struggle for equality. Students will analyze the historical and contemporary social, political, and economic forces that have shaped and continue to shape our society relative to gender. Students will then evaluate equality of women throughout the world analyzing social, political, and economic factors.

World Languages

In today's ever-changing world, learning another language is becoming more and more imperative, especially in the workplace. Society needs to be more accepting of other cultures and their influence on American language and culture. Learning a world language has also been shown to improve academic skills. Two years of a world language is strongly recommended for all students.

411 SPANISH I

(Two Semesters – 1.0 Credit)

Spanish I is an introduction to the Spanish language and culture. Students will begin developing proficiency in Spanish in the communicative skills of reading, writing, listening, and speaking. Students will learn the vocabulary and grammar needed to engage in real conversations on a variety of topics, such as family, friends, school, daily life, foods, house, clothing, and sports. Students will be exposed to a variety of speakers and authentic situations through videos, spontaneous conversation practice, cultural readings, online activities, music, poetry, projects and compositions, which will allow students to explore the culture of Spain and Latin America.

421 SPANISH II

(Two Semesters – 1.0 Credit)

Through a variety of cultural contexts, Spanish II reinforces the grammatical structures and vocabulary from the previous year and culminates in an understanding of all basic grammar and essential indicative verb forms. Conducted in Spanish, students build confidence in their oral participation and prepare research projects as they develop their thematic vocabulary and increase their understanding of the Hispanic world.

431 ACCELERATED SPANISH III

(Two Semesters – 1.0 Credit)

This course allows students to reinforce their Spanish language skills, build upon their abilities and confidence, and expand their view of the Spanish world through literature, magazine/newspaper articles, compositions, music, poetry, videos, online activities, and presentations. Students will continue to develop proficiency and increase vocabulary based on the themes of work and professions, hotels, hospitals, public transportation, rural life, nature, holidays, and social etiquette. Students will be expected to present information on a variety of topics, express feelings and opinions, engage in higher-level conversations and demonstrate an understanding of Spanish culture.

433 ACCELERATED SPANISH IV

(Two Semesters – 1.0 Credit)

Spanish IV is for students who want to become proficient in the Spanish language or prepare for the demands of Advanced Placement studies. This course prepares students for college level language courses through additional grammar, vocabulary, literature study, and research. At the conclusion of each unit, students will be able to express themselves on a variety of related topics and will engage in increasingly sophisticated conversations and projects.

445 ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

Advanced Placement Spanish Language is a demanding and accelerated course for highly motivated students who have shown excellence in language skills during their previous years in Spanish. The Advanced Placement Spanish Language course requires that dedicated students work independently to complete college-level work through vocabulary building assignments and advanced grammar exercises in homework. Students participate in recordings, discussions, presentations, reading, and timed essays in class and will be tested by the College Board on the optimal Advanced Placement exam.

** Students are required to complete summer work before the school year begins.*

412 FRENCH I

(Two Semesters – 1.0 Credit)

French I is an introduction to the French language and culture. Students will begin developing proficiency in French in the communicative skills of reading, writing, listening and speaking. Students will learn the vocabulary and grammar needed to engage in real conversations on a variety of topics, such as family, friends, school, daily life, foods, house, clothing, and sports. Students will be exposed to a variety of speakers and authentic situations through videos, spontaneous conversation practice, cultural readings, online activities, music, poetry, projects and compositions, which will allow students to explore the culture of France and the French-speaking world.

422 FRENCH II

(Two Semesters – 1.0 credit)

This intermediate level course is designed to build upon the basics of French vocabulary and grammar. Communicative competence continues to be emphasized through thematic units on cinema, cultural pastimes, health and fitness, telecommunications, travel, culinary arts and driving. Proficiency is strengthened through continuous reinforcement and reentry, and by engaging students in real conversations and scenarios. Cultural knowledge and awareness is

heightened through readings, videos, online activities, music, poetry, and connections to other disciplines.

432 ACCELERATED FRENCH III

(Two Semesters – 1.0 credit)

This course allows students to reinforce their French language skills, build upon their abilities and confidence, and expand their view of the Francophone world through literature, magazine/newspaper articles, compositions, music, poetry, videos, online activities, and presentations. Students will continue to develop proficiency and increase vocabulary based on the themes of work and professions, hotels, hospitals, public transportation, rural life, nature, holidays, and social etiquette. Students will be expected to present information on a variety of topics, express feelings and opinions, engage in higher-level conversations and demonstrate an understanding of Francophone culture.

443 ACCELERATED FRENCH IV

(Two Semesters – 1.0 credit)

French IV is an advanced course in which students will intensely review all the fundamentals of grammar and vocabulary while integrating the higher-level compound tenses and linguistic refinements for improved skills in reading, listening, composition and conversation. Thematic units will include French history, politics and government, job applications, storytelling, life events, media, environmental issues, and fine arts. Abridged examples of French literature, short stories, poems, legends and fairy tales will be studied to further enhance cultural comprehension and communicative skills at an advanced level. Finally, this course allows students to read and study novels in great detail, such as “Notre Dame de Paris” by V. Hugo and “Candide” by Voltaire.

444 UCONN ECE - FRENCH IV: GRAMMAR AND COMPOSITION (FREN 3268)

(Two Semesters – 1.0 credit, 3 UConn Credits)

** Not offered 2026-2027*

This course is taught simultaneously with 443 French IV and is an advanced study of French texts and extensive written practice in a variety of forms ranging from compositions, essays, summaries, and film reviews.

410 ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE*

(Two Semesters – 1.0 Credit)

Prerequisite: Teacher Recommendation

The AP French Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies,

and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions), practices (patterns of social interactions within a culture) and perspectives (values, attitudes, and assumptions).

**** Students are required to complete summer work before the school year begins.***

413 ROSETTA STONE®

(One or Two Semester Courses Available – 0.5 or 1.0 Credit)

Rosetta Stone is an online world language program that features 24 languages from all around the world. This curriculum provides a streamline path through the language program. Lessons include listening, reading, speaking, pronunciation, writing, grammar, and vocabulary activities. Rosetta Stone® tracks your learner's progress, revisiting skills that need additional development based on the learner's performance in review activities. Languages include Latin, Mandarin, Italian, Farsi, Turkish, Arabic, Irish, Hindi, and many more.

Additional Requirements

723 FRESHMAN EXPLORATORY

(One Semester – 0.5 Credit)

The Freshman Exploratory course is designed to introduce 9th grade students to the goals and learning experiences of the Career and Technical Education program and to help acclimate students to the rigors of the high school experience. Areas of study include Agricultural Science and Technology, Business and Finance Technology, Music Education, and Engineering Technology. Career and Technical Education courses also support STEM (Science, Technology, Engineering and Math) learning requirements and transferable skills. Upon completion of the exploratory phase of the CTE/UA program, students will have the opportunity to choose additional, more advanced courses of study related to their career and post-secondary plans as well as their personal interests.

969 SENIOR CAPSTONE

(Two Semesters – 1.0 Credit)

In Senior Capstone, students will engage in a capstone project that applies all the NHRHS Transferable Skills and highlights the student's possible future career path or academic pursuit. Students may choose to create a product, perform community service, organize a performance, or explore a career path. The culmination of this class is the Senior Capstone Expo at which students share their knowledge and experiences with the East Haddam community.

Additional Electives

007 INDEPENDENT STUDY

(One Semester – 0.5 Credit)

Graded as Pass/Fail

Independent study programs are intended to enrich students' experiences. Students have the opportunity to complete an independent study to develop their knowledge and skills in a particular area of interest beyond the school's regular offerings in the areas where teachers' expertise cannot be accessed in regular programs. It is a method of self-discovery and growth. It involves choosing a problem or topic that has particular meaning for the individual and following it to a point where it satisfies their curiosity or need at the time. Students must identify a teacher relating to that subject area to act as their "supervising teacher" through the course. Students must be capable of focused independent study and will be held responsible for the following criteria:

- Proposal – a formal proposal that includes an essential question and focus of study, purpose of study, timeline inclusive of meetings with supervisor, potential resources needed, and an end product and/or research paper. The proposal must then be approved by the supervising teacher, parent/guardian, and administration.
- Journal – record of meetings and work engaged in.
- Presentation of Learning – there should be a formal presentation at the conclusion of the course, which includes the supervising teacher, school counselor, and administrator.

Any students interested in an independent study should see their school counselor. All independent student applications must be approved by the principal.

522 SAT PREPARATION

(One Semester – 0.5 Credit)

This elective is open to any student in grades 9-11 who wishes to prepare for the SAT and/or any student who wishes to build their skills in the areas of math, vocabulary, and reading comprehension. The course aims to familiarize students with the format of the SAT, the scoring rubrics, and various test-taking strategies. This course will utilize Khan Academy for individualized, targeted skill building and will provide direct instruction in order to support students in their individualized pathways. Students and teachers will set goals, reflect on progress and make adjustments when necessary. Students will be encouraged to ask questions that help them access and integrate knowledge; to wrestle with complex and authentic problems; and will be taught how to integrate and apply what they have learned to other coursework and learning experiences.

499 STUDENT INTERN*

(One or Two Semester Courses Available – 0.5 or 1.0 Credit) Grades 11 & 12

Graded as Pass/Fail

This program provides an opportunity for students to intern within the school or with agencies in the surrounding community, while developing and exercising their communication, collaboration, critical thinking, and creativity skills. The program is open to 11th and 12th grade students. Interested students should consult with their school counselor to see if they qualify for the program. Eligible students will be required to complete a placement application, bi-weekly work records, and mid-term reflection.

**** Students must secure parental permission and provide any transportation needed. This course is open to grade 11 and 12 students only.***

VIRTUAL HIGH SCHOOL

(One or Two Semester Courses Available – 0.5 or 1.0 Credit)

NHRHS is a member of VHS Learning, a virtual education provider. A variety of semester and year long courses are available, including Advanced Placement courses. Students may select enrichment courses and will have the opportunity to work on the virtual class during the school day. For more information, visit www.vhslearning.org or see your school counselor. Students will only be approved to take VHS courses if they have demonstrated the ability to work well independently. Due to the rigor of VHS offerings, students should have a cumulative GPA of at least 9.0.