

# **Haverhill High School**



## **Program of Studies**

### **2025 - 2026**

Haverhill High School  
137 Monument Street Haverhill,  
MA 01832

# Haverhill High School

## Haverhill High School's 21<sup>st</sup> Century Learning Expectations Statement of Purpose

### **Academic**

Scholars will communicate by listening, writing, and speaking clearly and effectively in a variety of formats. Scholars will apply critical thinking skills to solve problems that relate to real world application. Scholars will use technology to research, solve problems, and design presentations, documents, and other products in a legal and ethical fashion.

### **Social**

Scholars will embody the core values at Haverhill High School by being global, responsible, engaged, accepting, and tenacious in our school and community.

### **Civic**

Scholars will demonstrate an understanding of civic responsibilities with a global perspective and in our local community.

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# GRADUATION REQUIREMENTS

Twenty (20) credits are required for graduation from Haverhill High School. All scholars must satisfy the graduation requirements listed below. **Note: Graduation requirements subject to change with School Committee approval.**

HPS will enforce all previous graduation requirements, with the exception of a passing score on the MCAS examination. In addition, Computer Technology and School-to-Career courses are considered elective courses to more closely align with MassCore expectations. However, graduates are **strongly encouraged** to complete a 4th year of Math and meet the Mass Core graduation requirements set forth by the Department of Elementary and Secondary Education. Mass Core is a state-recommended, rigorous program of study that aligns high school coursework with college and workforce expectations. **Mass Core requires an additional credit in Mathematics, one credit in both World Language and Fine Arts, and two and a half additional courses, for a total of 22 credits. Note: MassCore does not include Wellness which is a state requirement so two additional credits are needed for a total of 24 credits.** HHS students completing the Mass Core graduation requirements will be acknowledged for their achievement of this distinction.

Area of Study	HHS Class of 2025 and beyond Credits 20	MassCore Credits 24
English (I, II, III, IV)	4.0	4.0
Social Studies	3.0	3.0
Mathematics (*Must include Algebra II)	3.0	4.0*
Lab-based Science	3.0	3.0
Fine Arts	1.0 or World Language*	1.0
World Languages (*Must be the same language)	1.0 or Fine Arts*	2.0*
Wellness	2.0**	2.0**
Electives (*can include technology and/or school-to-career. A 4th year of Math is strongly encouraged)	4.0	---
Additional Mass Core credits (*Must be from technology, school-to career, business, or additional core academic areas)	---	5.0

**\*\* Required by law**

Suggested Credits for Admission to Post-Secondary School					
	English	Social Studies	Mathematics	Science	World Languages (same language preferred)
Highly Selective Colleges	4	4	4-5	4	3-4
Four-Year College	4	3	4	3-4	2-4
Two-Year College	4	3	3	3	1-2
Technical College	4	3	3	3	1-2

# COURSE DESCRIPTIONS

## ENGLISH

Whether scholars plan to attend college upon graduation or to move directly into the workplace, they need strong communication tools. The English Department offers an array of courses to help scholars develop the necessary skills for success in the 21<sup>st</sup> century. All English classes engage scholars in reading, writing, speaking, and listening. Scholars read a range of complex texts, learn to cite evidence, analyze information, write effectively for a variety of purposes and audiences, and conduct meaningful research. In addition to giving and receiving feedback, scholars learn more about the basic traits of writing – ideas, organization, voice, word choice, sentence fluency, conventions, and presentation. Scholars also improve their language skills by learning principles of grammar and acquiring new vocabulary.

The English courses at Haverhill High School align with the Massachusetts Common Core Standards for English Language Arts. All scholars at Haverhill High School are required to pass four years of English. The English Department is committed to helping all scholars achieve high academic standards. The department nurtures and challenges scholars, encouraging them to express their ideas clearly and to think critically about the world around them. The course offerings in the ELA curriculum enable scholars to become stronger readers, writers, speakers, listeners, and thinkers.

All non-elective English classes count towards the English Graduation Requirement.

### GRADE 9 ENGLISH

The Freshman English Program stresses competence in reading, writing, speaking and listening. The study of literature includes short stories, novels, poetry, nonfiction writing, and a Shakespearean play. In addition to materials assigned for class study and discussion, outside reading assignments are required. Specific writing assignments will be used as a basis for developing and improving a scholar’s writing competence. In preparation for success in high school and on state mandated tests, scholars develop study and organizational skills, practice answering and supporting open-ended questions, write often to a variety of prompts, and learn to self-assess and revise their written work.

ENGLISH I CP	CRS H0003	GR 9	CR 1	Y
Scholars entering English I College Prep read and analyze grade-appropriate literary and informational texts both independently and with teacher assistance. Throughout the year, scholars will demonstrate evidence of independent reading. This course will also develop and enhance writing. Scholars will discuss model essay samples; create essays with the goal of structural, grammatical and mechanical integrity in the final drafts; and successfully and insightfully participate in class discussions, projects and presentations, demonstrating skill in the utilization of a variety of resources with appropriate scaffolding.				

ENGLISH I HONORS	CRS H0001	GR 9	CR 1	Y
Scholars entering English I Honors comprehend literary and informational texts at or above grade level. Throughout the course they will read and analyze difficult literary and informational texts independently. This course will also develop and enhance student writing. Scholars will discuss model essay samples; create essays with the goal of structural, grammatical and mechanical integrity in the final drafts; and successfully and insightfully participate in class discussions, projects and presentations, demonstrating skill in the utilization of a variety of resources. The Classical Academy version includes thematic links to all of the Honors program’s classes, with specific connections to Classics courses (Classical Perspectives and Latin).				

**FUNDAMENTALS OF ENGLISH I****CRS H0005****GR 9****CR 1****Y**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. Fundamentals is a special education academic, sub-separate program. In addition to students' exposure to the modified grade level curriculum, there is an emphasis on reading comprehension and using metacognitive reading skills as well and breaking down the writing process. The class is supported by a dual certified English special education teacher and other support professionals as needed.

**21ST CENTURY LITERACY SKILLS****CRS H0098****GR 9****CR ½****S**

Scholars identified as needing extra support in their English I course, or who are reading below grade-level, take this course in addition to their regular English class. Here scholars work with their English teacher and the diagnostic and personalized program iReady to remediate their literacy skills. Scholars take this course with a teacher recommendation. This course is Pass/Fail.

**GRADE 10 ENGLISH**

The Sophomore English Program builds on the foundation of the reading and writing skills developed in the ninth grade curriculum and emphasizes the interrelationship among language, literature, and composition. The study of literature includes short fiction, novels, poetry, and dramas and accentuates the critical thinking process to demonstrate comprehension. Scholars will work with literature through text-based analytical discussions and will be given opportunities to showcase this through the development of their writing. Scholars will prepare for standards based testing through the review of test taking, study, and organizational skills while they are learning to self-assess and revise written work.

**AP SEMINAR****CRS H0088****GR 10 - 12****CR 1****Y**

In AP Seminar scholars will develop and practice skills in research, collaboration, and communication that they will need in any academic discipline. Scholars will investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team. Scholars will learn valuable skills including: reading and analyzing articles, gathering and combining information from sources, viewing issues from multiple perspectives, and crafting arguments based on evidence. During the course, scholars complete a team project and an individual paper and presentation, as well as take a written end-of-course exam. These components contribute to the overall AP Seminar score.

**ENGLISH II CP****CRS H0011****GR 10****CR 1****Y**

Scholars enrolled in English II College Prep should be reading and writing at grade-level. Through reading a variety of core texts, scholars will develop and refine the skills to analyze, compare and contrast characters and their development; explain the motives and ramifications of major conflicts; and interpret literary symbols. Scholars will learn how to utilize a variety of rhetorical techniques in their own compositions and develop an understanding of development, cohesion, conventions, and the use of language and style to improve their writing skills. Scholars will master grade level standards. **In order for a scholar to enroll in English II CP, they must have successfully completed English I.**

**ENGLISH II HONORS****CRS H0009****GR 10****CR 1****Y**

Scholars entering English II Honors read and write at or above grade level. Through reading a variety of core texts, scholars will develop and refine the skills to analyze, compare and contrast characters and their development; explain the motives and ramifications of major conflicts; and interpret literary symbols. Scholars will learn how to utilize a variety of rhetorical techniques in their own compositions and develop an understanding of development, cohesion, conventions, and the use of language and style to improve their writing skills. Scholars will master grade level standards. The Classical Academy version includes thematic links to all of the Honors program's classes, with specific connections to Classics courses (**Classical Perspectives and Latin**). **In order for a scholar to enroll in English II Honors, they must have successfully completed English I and received a course recommendation from their previous year's English teacher.**

<b>FUNDAMENTALS OF ENGLISH II</b>	<b>CRS H8007</b>	<b>GR 10</b>	<b>CR 1</b>	<b>Y</b>
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Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. Fundamentals is a special education academic, sub-separate program. In addition to students' exposure to the modified grade level curriculum there is an emphasis on reading comprehension and using metacognitive reading skills as well as breaking down the writing process. The class is supported by a dual certified English special education teacher and other support professionals as needed.

<b>21ST CENTURY LITERACY SKILLS</b>	<b>CRS H0098</b>	<b>GR 10</b>	<b>CR ½</b>	<b>S</b>
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Scholars identified as needing extra support in their English II course, or who are reading below grade-level, take this course in addition to their regular English class. Here scholars work with their English teacher and a diagnostic program to remediate their literacy skills. Scholars take this course with a teacher recommendation. This course is Pass/Fail.

### **GRADE 11 ENGLISH**

The Junior English Program focuses on the study of American literature. Scholars will be guided to read for deep textual understanding. Various genres – including novels, short stories, poetry, drama, and essays – will be used as a basis for developing and improving a scholar's mastery of reading and writing skills.

<b>AP ENGLISH LITERATURE &amp; COMPOSITION</b>	<b>CRS H8031</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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AP Literature and Composition engages scholars in the careful reading and critical analysis of imaginative literature in a variety of genres from the 16th to the 21st century. Through close reading of selected texts, scholars deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, scholars consider a work's structure, style and themes as well as the use of figurative language, imagery, symbolism, and tone. Scholars will read multiple works at a time. In addition, writing is an integral part of the course. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Scholars will complete multiple major writing assignments per term, to be composed both in and out of class, and engage in systematic revisions during the drafting process. **Scholars enrolling in this course are required to take the Advanced Placement Examination in Literature and Composition.**

<b>ENGLISH COMPOSITION I (ENG 101) DUAL ENROLLMENT - NECC</b>	<b>CRS H0026E</b>	<b>GR 11</b>	<b>CR 1</b>	<b>S</b>
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A required course to develop critical thinking and clear, effective writing. This course explores the reading and writing processes, and emphasizes source-based writing. **Prerequisite: Placement Testing. This class is taught at NECC.**

<b>ENGLISH III CP</b>	<b>CRS H0019</b>	<b>GR 11</b>	<b>CR 1</b>	<b>Y</b>
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Scholars enrolled in English III College Prep will be responsible for independent and assigned class readings from classic and contemporary American literature. They will work on the following writing skills for analytical and research assignments: topic development, textual support of the thesis, and the proper use of grammar. Scholars will use peer and self-evaluation as part of the writing process and develop revision skills through completing multiple drafts. They will work cooperatively, complete assignments, and proceed at a consistent pace, as well as master grade-level standards. **In order for a student to enroll in English III College Prep, they must have successfully completed English II.**

<b>ENGLISH III HONORS</b>	<b>CRS H0017</b>	<b>GR 11</b>	<b>CR 1</b>	<b>Y</b>
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Scholars enrolled in English III Honors will be responsible for rigorous independent and assigned readings from classic and contemporary American literature. In addition to mastering grade level standards, they will write fully-developed analytical, argumentative, and research-based essays containing thesis statements, provide

textual evidence, and utilize proper grammar. Peer and self-evaluations will be part of the writing process. Scholars will develop revision skills through multiple draft writing. Scholars will conduct effective research to write well-developed essays. When enrolled in this course, scholars are expected to participate in class cooperatively, devote appropriate time to their assignments, and prepare to work at a demanding pace. Scholars will master or exceed grade-level standards. **In order for a student to enroll in English III Honors, they must have successfully completed English II and received a course recommendation from their previous year's English Teacher.**

### **FUNDAMENTALS OF ENGLISH III**

**CRS H8009**

**GR 11**

**CR 1**

**Y**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. Fundamentals is a special education academic, sub-separate program. In addition to students' exposure to the modified grade level curriculum, there is an emphasis on reading comprehension and using metacognitive reading skills as well and breaking down the writing process. The class is supported by a dual certified English special education teacher and other support professionals as needed.

### **GRADE 12 ENGLISH**

The Senior English Program focuses on the study of World literature for English IV Honors and on a variety of literature for English IV College Prep. Scholars in English IV will be guided to develop the ability to read with deep textual understanding. Novels, short stories, poetry, drama, and essays are studied, with an emphasis on style and the techniques used by authors to gain their effects. Outside reading assignments will be required. Specific writing assignments will be used as a basis for developing and improving a scholar's writing competence.

### **AP ENGLISH LANGUAGE & COMPOSITION**

**CRS H0023**

**GR 11 – 12**

**CR 1**

**Y**

In this college-level composition class, scholars will engage with a range of nonfiction prose selections, deepening their awareness of rhetoric and argumentation. Through reading nonfiction texts in a wide variety of genres, scholars will explore how authors use language and rhetoric to create meaning, to persuade, and to move an audience to action. Through close reading and frequent writing, students will come to understand the core premise of the course: that everything's an argument. Scholars will leave this course able to analyze complex works of nonfiction, formulate sophisticated arguments that are supported by evidence, and write with style and rhetoric appropriate to the task. **Scholars enrolling in this course are required to take the Advanced Placement Examination in Language and Composition.**

### **ENGLISH COMPOSITION II (ENG 102) DUAL ENROLLMENT - NECC**

**CRS H0030EC**

**GR 12**

**CR 1**

**S**

A required course emphasizing analysis, argumentation, and research. Texts and materials will vary from section to section and will be employed as the basis for a range of essays. Successful completion of a research essay is required to pass this course. **Prerequisite: Placement Testing. This class is taught at NECC.**

### **ENGLISH IV CP**

**CRS H0027**

**GR 12**

**CR 1**

**Y**

Scholars enrolled in English IV College Prep will be responsible for engaging in a wide variety of sophisticated and socially relevant modes of reading and writing. In addition to exploring compelling, rigorous, and diverse works of literature to expand upon the reading, writing, speaking, and listening skills required in traditional English Language Arts classes, scholars will also be reading and composing cover letters, resumes, editorials, reviews, blogs, and other relevant modes of reading and writing to better prepare them for successful participation in post-high school and professional life. **In order for a student to enroll in English IV CP, they must have successfully completed English III.**

### **ENGLISH IV HONORS**

**CRS H0025**

**GR 12**

**CR 1**

**Y**

Scholars enrolled in English IV Honors will be responsible for rigorous independent and assigned readings spanning the literary canon from early English literature to contemporary British fiction, non-fiction, and poetry,



from various works of world literature. In addition to mastering grade level standards, scholars will be expected to make meaningful connections through reflections on their reading. They will write fully-developed analytical essays containing thesis statements, textual evidence, and proper use of grammar. Scholars will also conduct research, write creatively, and present work before the class. Peer and self evaluations are a required part of the writing process. Additionally, scholars are expected to compile their writing and reflect on it in order to produce senior exit portfolios. Scholars must be prepared to work both cooperatively and independently, devote appropriate time to their homework assignments, and work at a demanding pace. **In order for a student to enroll in English IV Honors, they must have successfully completed English III.**

**FUNDAMENTALS OF ENGLISH IV** **CRS H0011** **GR 12** **CR 1** **Y**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. Fundamentals is a special education academic, sub-separate program. In addition to students' exposure to the modified grade level curriculum, there is an emphasis on reading comprehension and using metacognitive reading skills as well and breaking down the writing process. The class is supported by a dual certified English special education teacher and other support professionals as needed.

**ENGLISH ELECTIVES**

**21<sup>ST</sup> CENTURY LITERATURE** **CRS H0072** **GR 9 – 12** **CR ½** **S**

Students enrolled in 21st Century Literature will read from a section of diverse 21<sup>st</sup> century novels cataloguing the unique trials faced in the modern age. Particular attention will be paid to how characters face the challenges of developing identity in terms of gender, race, sexuality, socialization and family in the modern world. In concert with their reading, students will develop writing skills, including thesis development, incorporation of evidence, analysis, and organization.

**CREATIVE MYTHOLOGY** **CRS H0086** **GR 9 – 12** **CR ½** **S**

Have you ever wondered about the origins of the stories we tell today in movies, television and books? This class is all about digging into ancient cultures and the mythic tales they told. Explore the purpose of Cherokee creation stories, and how Hercules connects to Harry Potter and Luke Skywalker! You will read several myths from various time periods and cultures, and write your own myths. Units covered include creation myths, the hero's journey, morality and myths in society. Embark on a quest to discover universal truths about humanity, and strengthen your creative writing skills!

**CREATIVE WRITING** **CRS H0033** **GR 11 – 12** **CR ½** **S**

Creative Writing is designed as a workshop to provide scholars with the opportunity to study and write short stories, poetry, creative nonfiction, and scripts. Scholars will explore the characteristics of these forms. Teacher-student conferences and peer conferences will be held frequently to help scholars strengthen their writing skills and their confidence. Scholars will be required to complete a final writing portfolio to demonstrate their writing and growth over the course.

**JOURNALISM** **CRS H0037** **GR 10 – 12** **CR1** **Y**

This course focuses on journalistic writing in its many forms. Scholars will analyze the structure, point-of-view, and style of writing through exploration of print, radio, television, and Internet sources in order to acquire the skills needed to effectively impact readers. Along with writing informative, explanatory, and persuasive articles for publication, scholars will develop their reporting, narrative, and research skills while also enhancing their awareness of both local and global issues. Scholars enrolled in the course will staff and assume all responsibilities of the school newspaper, The Brown and Gold, meeting strict publication deadlines. Scholars will produce print and digital issues during the course of the school year. **School to Career requirement option.**

**POETRY & LYRICS: A TAYLOR SWIFT STUDY****CRS H0087****GR 9 – 12****CR ½****S**

Taylor Swift has been breaking records and dominating public discourse since her debut album in 2006. In this course, we will examine Swift as a cultural phenomenon and artist and closely analyze her lyricism and masterful storytelling. Join us on a journey through Taylor Swift's discography as we move through each era and track the evolution of Swift's messages, motifs, and personal philosophy. Are you "...Ready For It'?

**PUBLIC SPEAKING****CRS H0035****GR 10 – 12****CR ½****S**

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, scholars should be able to prepare and deliver well-organized speeches and participate in group discussions. Scholars should also demonstrate the speaking, listening, and interpersonal skills necessary to be effective communicators in academic settings, in the workplace, and in their community.

**TRUE CRIME****CRS H0050****GR 9 – 12****CR ½****S**

Through an analysis of articles, documentaries, podcasts, and various other nonfiction sources, scholars enrolled in this course will learn about the psychology behind criminal behavior and will utilize their research skills to develop and support theories about unsolved cases. Students will be expected to frequently reflect and collaborate with peers about topics connected to our course texts and concepts. At the end of each term, students will complete a project-based assessment that evaluates their ability to synthesize research and to effectively apply the reading, writing, speaking, and listening skills that have been reinforced throughout the course.

**YEARBOOK PUBLISHING****CRS H9703****GR 11 – 12****CR ½****S**

This half year course is for juniors and seniors that are passionate about storytelling, journalism, photography, design, business, leadership and writing. Students will work alongside faculty yearbook advisors to put together a yearbook that is representative of the HHS student body. Students should be self-motivated and care about details.

## ENGLISH LANGUAGE DEVELOPMENT

The English Language Development courses offer direct instruction in intensive English Language Education in alignment to the MA State and Common Core State Standards in English Language Arts for all levels of English Learners (ELs) and in Math, History, and Science for Newcomer Levels 1-2 ELs. Grade level academic content is made accessible through cognitively demanding, academic language and literacy development. Instruction is highly production oriented in all linguistic domains. The individual proficiency levels of scholars classified as English Learners are carefully determined and monitored for proper placement with dually licensed content/ESL teachers for Math, History, Science, and English Language Arts. The scholars gain access to the State and District curriculum in the respective core areas through focused instruction, and rigorous college and career ready expectations for mastery of language and academic content.

**ELD READING AND WRITING I****CRS H9025****GR 9 – 12****CR 1****Y**

This course is for English language scholars who have entry level English language skills. Newcomer ELs engage in intensive academic and social vocabulary and discourse development through complex reading, writing, listening, and speaking tasks. In alignment with grade level standards, scholars in this course will engage in rigorous language and skill development to increase comprehension and production of English. ELs will engage with various texts, media, and technology to increase grammatical awareness and build academic and social language.

**ELD READING AND WRITING II****CRS H9026****GR 9 – 12****CR 1****Y**

This course is for scholars who have reached level two on the WIDA language proficiency scale. Scholars in this course will interact with the National Geographic Reach series to develop English language skills in reading, writing, listening, and speaking. Scholars will explore thematic units and read and write texts in various genres to

answer the essential question of the unit. Scholars will engage with various media and technology to increase grammatical awareness and build academic and social language.

<b>ELD READING AND WRITING III</b>	<b>CRS H9027</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is for scholars who have reached intermediate proficiency on the WIDA language proficiency scale. Scholars in this course will continue to develop English language skills in reading, writing, listening, and speaking. Scholars will explore thematic units and read and write texts in various genres to answer the essential question of the unit. Scholars will engage with various media and technology to increase grammatical awareness and build academic and social language. Scholars enrolled in this course receive one period of English language instruction, as well as one period of English Language Arts (ELA), per day.

<b>ELD READING AND WRITING IV</b>	<b>CRS H9028</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is for scholars who have reached advanced intermediate proficiency on the WIDA language proficiency scale. Scholars in this course will continue to develop high level English language skills in reading, writing, listening, and speaking. Scholars will explore thematic units and read and write texts in various genres to answer the essential question of the unit. Scholars participate in reading and writing tasks designed to help them become independent learners with near-native fluency in English. Scholars enrolled in this course receive one period of English language instruction, as well as one period of English Language Arts (ELA), per day.

<b>ELD READING AND WRITING V</b>	<b>CRS H9029</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is for scholars with near-native fluency in English. This course provides a demanding regimen of English speaking, reading and writing for scholars who have reached advanced English Language proficiency but who still need support with the complexities of the rigorous academic language demands of High School. Scholars will continue to develop their academic and social language skills through thematic units. Scholars will read and produce complex texts of various genres and engage with different media and technology. Scholars enrolled in this course receive one period of English language instruction, as well as one period of English Language Arts (ELA), per day.

<b>ELD ADVANCED WRITING V</b>	<b>CRS H9903</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is for scholars with near-native fluency in English who have successfully completed ELD Reading and Writing V, but have not yet reached the threshold on ACCESS for exiting from ELD services. This course provides a demanding regimen of English speaking, reading and writing for scholars who have reached advanced English Language proficiency but who still need support with the complexities of the rigorous academic language demands of High School. Scholars enrolled in this course receive one period of English language instruction, as well as one period of English Language Arts (ELA), per day.

<b>ELD ADVANCED READING V</b>	<b>CRS H9706</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is for scholars with near-native fluency in English who have successfully completed ELD Reading and Writing V, but have not yet reached the threshold on ACCESS for exiting from ELD services. This course provides a demanding regimen of English speaking, reading and writing for scholars who have reached advanced English Language proficiency but who still need support with the complexities of the rigorous academic language demands of High School. Scholars enrolled in this course receive one period of English language instruction, as well as one period of English Language Arts (ELA), per day.

The following courses are structured to support level 1 and 2 ELD scholars in the content areas. For complete descriptions, please see the appropriate content areas.

### **REAL Pathway**

EL students enrolled in the **Rigorous English and Academic Learning (REAL)** courses receive instruction under the Sheltered English Immersion model for the full day. The programs provide intensive instruction in English language development (ELD) and in literacy acquisition. They also provide consistent instruction in numeracy and instruction in foundational concepts for Science and Social Studies. REAL courses offer the necessary individualization, flexibility, academic scaffolding, and social-emotional support within a culturally and linguistically supportive framework, that facilitate students' transitioning to the U.S. and to American culture. Students transition from REAL courses to other appropriate programs once they achieve the necessary linguistic and academic foundation to access the mainstream curriculum or pursue a high school diploma.

<b>REAL LITERACY</b>	<b>CRS H7344</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed for ELD scholars with little to no literacy skills in their native language or English. Scholars will work on building and improving basic literacy skills in English. The focus of this course is to provide scholars with explicit, direct instruction in reading fluency, vocabulary development, and comprehension strategies, as well as direct instruction in phonemic awareness and phonics. Scholars' strengths and weaknesses are addressed through whole group, small group, and individual guided reading and instruction.

<b>REAL MATH</b>	<b>CRS H7346</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed for ELD scholars with little to no literacy skills in their native language or English. Scholars will work on acquiring the language for math, and the skills and concepts of algebra and geometry. Topics covered include, but are not limited to: basic operations, fractions, percentages, decimals, ratios, probability, perimeter, area, circumference, integers, basic graphing, basic calculator skills, and solving linear equations. Scholars' strengths and weaknesses are addressed through whole group, small group, and individual instruction.

<b>REAL MATH II</b>	<b>CRS H9707</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed for ELD scholars with emerging literacy skills in their native language or English and who have successfully completed REAL Math I. Scholars will continue to acquire the language for math, and build upon their skills and concepts of algebra and geometry. Topics covered include, but are not limited to: basic operations, fractions, percentages, decimals, ratios, probability, perimeter, area, circumference, integers, basic graphing, basic calculator skills, and solving linear equations. Scholars' strengths and weaknesses are addressed through whole group, small group, and individual instruction.

<b>REAL SCIENCE</b>	<b>CRS H7345</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed for ELD scholars with little to no literacy skills in their native language or English. Scholars will work on acquiring the language for science content knowledge. Topics covered include, but are not limited to: human biology, ecology and genetics. Scholars' strengths and weaknesses are addressed through whole group, small group, and individual instruction.

<b>REAL SCIENCE II</b>	<b>CRS H9708</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed for ELD scholars with emerging literacy skills in their native language or English, who have successfully completed REAL Science I. Scholars will continue to acquire the language for science and build on their science content knowledge. Topics covered include, but are not limited to: human biology, ecology and genetics. Scholars' strengths and weaknesses are addressed through whole group, small group, and individual instruction.

## HISTORY

[Link to Website](#)

*The study of history and the social sciences is vital in a democratic society. All scholars need to know and understand the European historical tradition, our national heritage, and the cultures and civilizations of the entire globe in order to become informed participants in shaping our nation's future. The history and social science courses are designed to: (1) develop the knowledge and skills of history, geography, civics and economics that enable scholars to place the people, ideas and events that have shaped our state and our nation in perspective; (2) enable scholars to understand the basic values, principles and operations of American constitutional democracy; (3) prepare scholars for informed and responsible citizenship; (4) develop scholars' skills in debate, discussion and writing; and (5) provide scholars with a framework for continuing education in history and social sciences.*

**AP EUROPEAN HISTORY** **CRS H1110** **GR 10 – 12** **CR1** **Y**

The course in European History is designed to provide scholars with the intellectual-cultural, political-diplomatic, and socioeconomic history of Europe beginning about 1450. The program prepares scholars for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses. Scholars selecting AP European History must take the Advanced Placement Examination in European History, for which college credit may be awarded. ***Prerequisite: Grade of B- or better in World History II Honors or B+ in World History II and recommendation of teacher. Important: It is expected that scholars enrolling in AP European History in Grade 10 will enroll in AP U.S. History in Grade 11.***

**AP U.S. HISTORY** **CRS H1115** **GR 11** **CR1** **Y**

The course in United States History is designed to provide scholars with the analytic skills and factual knowledge necessary to deal critically with the problems and issues connected with American History. The program prepares scholars for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses. Scholars selecting AP U.S. History must take the Examination in United States History, for which college credit may be awarded. ***Prerequisite: Grade of B- or better in World History II or a passing grade in AP European History or AP World History, and recommendation of a teacher.***

**ELD U.S. HISTORY I CP** **CRS H1120** **GR 10** **CR1** **Y**

The first semester of this U.S. History I course begins with an analysis of the U.S. Constitution and continues into the 19th century with topics such as westward expansion, early industrialization and the Civil War. The second semester of this U.S. History I course journeys through the Reconstruction Period, the Indian Wars, Imperialism, Progressivism and the first World War. This course is taught with a sheltered language instructional approach to provide maximum comprehension of the content while assisting with the acquisition of academic language skills appropriate to the subject area. Significant emphasis is placed upon acquisition of academic vocabulary, syntax and grammar as well as related reading and writing skills. ***This course is required for graduation and should be taken during the sophomore year.***

**ELD U.S. HISTORY II CP** **CRS H1122** **GR 11** **CR1** **Y**

This U.S. History II course covers the span of years from 1920 until the present. In the first semester, the scholars will learn about major events that include the Great Depression, World War II, the Cold War, and the Civil Rights Era. The second semester will begin with the 1960s and the Vietnam War and continue through to the present day. The course will cover the tumultuous 1970s, the Reagan Era, the Age of Technology and the Post-9/11 early 21st century. This course is taught with a sheltered language instructional approach to provide maximum comprehension of the content while assisting with the acquisition of academic language skills appropriate to the subject area. Significant emphasis is placed upon acquisition of academic vocabulary, syntax and grammar as well as related reading and writing skills. ***This course is required for graduation and should be taken during junior year.***

**ELD WORLD HISTORY II CP** **CRS H1108** **GR 9** **CR1** **Y**

This course covers the American and French Revolutions, rise of nationalism, industrial revolution, western imperialism, WWI, the Great Depression, WWII, the rise of Communism and the Cold War, decolonization, the global

economy, and the post-9/11 era. Additionally, students will learn about genocides that have happened throughout history. This course is taught with a sheltered language instructional approach to provide maximum comprehension of the content while assisting with the acquisition of academic language skills appropriate to the subject area. Significant emphasis is placed upon acquisition of academic vocabulary, syntax and grammar as well as related reading and writing skills. ***This course is required for graduation and should be taken during freshman year.***

***Prerequisite: Recommendation 8th grade History teacher.***

<b>FUNDAMENTALS OF U.S. HISTORY I</b>	<b>CRS H8190</b>	<b>GR 10</b>	<b>CR1</b>	<b>Y</b>
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The first semester of this U.S. History I course begins with an analysis of the U.S. Constitution and continues into the 19th century with topics such as westward expansion, early industrialization and the Civil War. The second semester of this U.S. History I course journeys through the Reconstruction Period, the Indian Wars, Imperialism, Progressivism and the first World War. ***This course is required for graduation and should be taken during the sophomore year.***

<b>FUNDAMENTALS OF U.S. HISTORY II</b>	<b>CRS H8125</b>	<b>GR 11</b>	<b>CR1</b>	<b>Y</b>
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This U.S. History II course covers the span of years from 1920 until the present. In the first semester, the scholars will learn about major events that include the Great Depression, World War II, the Cold War, and the Civil Rights Era. The second semester will begin with the 1960s and the Vietnam War and continue through to the present day. The course will cover the tumultuous 1970s, the Reagan Era, the Age of Technology and the Post-9/11 early 21st century. ***This course is required for graduation and should be taken during junior year.***

<b>FUNDAMENTALS OF WORLD HISTORY II</b>	<b>CRS H8123</b>	<b>GR 9</b>	<b>CR1</b>	<b>Y</b>
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This course begins with an analysis of the American and French Revolutions, as part of the Era of Atlantic Revolutions. The influences of the French Revolutionary and Napoleonic period are traced forward, specifically as seen through the rise of nationalism in Europe that resulted in fundamentally altering the Balance of Power that would eventually cause the collapse of the “Long Peace” and plunge European politicians toward two wars in the first half of the 20<sup>th</sup> century. The impact of the Industrial Revolution and Western imperialism is viewed from various perspectives. Scholars will focus on the impacts of World War I, the Great Depression, rise of dictatorship, and World War II through a global lens. The course continues with the study of WWII and traces the rise of communism and the downfall of communism during the Cold War. Scholars then begin to look at the regions of the world to delve into the common topics that shape our modern world. Decolonization and the aftermath of Western imperialism are viewed from the lens of various actors on the world stage. Scholars will see the impact of economic growth and the emergence of a global economy on our ever “shrinking” world. The course culminates by giving scholars a broader view of the modern world in the post-Berlin Wall and post 9-11 era. ***This course is required for graduation and should be taken during freshman year.***

<b>U.S. HISTORY I CP</b>	<b>CRS H1124</b>	<b>GR 10</b>	<b>CR1</b>	<b>Y</b>
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The first semester of this U.S. History I course begins with an analysis of the U.S. Constitution and continues into the 19th century with topics such as westward expansion, early industrialization and the Civil War. The second semester of this U.S. History I course journeys through the Reconstruction Period, the Indian Wars, Imperialism, Progressivism and the first World War. ***This course is required for graduation and should be taken during the sophomore year.***

<b>U.S. HISTORY I HONORS</b>	<b>CRS H1126</b>	<b>GR 10</b>	<b>CR1</b>	<b>Y</b>
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The first semester of this U.S. History I course begins with an analysis of the U.S. Constitution and continues into the 19th century with topics such as westward expansion, early industrialization and the Civil War. The second semester of this U.S. History I course journeys through the Reconstruction Period, the Indian Wars, Imperialism, Progressivism and the first World War. ***This course is required for graduation and should be taken during the sophomore year.***

**year. Prerequisite: Grade of B- or better in World History II or passing grade in World History II Honors and receive the recommendation of his/her teacher.**

<b>U.S. HISTORY II CP</b>	<b>CRS H1119</b>	<b>GR 11</b>	<b>CR1</b>	<b>Y</b>
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This U.S. History II course covers the span of years from 1920 until the present. In the first semester, the scholars will learn about major events that include the Great Depression, World War II, the Cold War, and the Civil Rights Era. The second semester will begin with the 1960s and the Vietnam War and continue through to the present day. The course will cover the tumultuous 1970s, the Reagan Era, the Age of Technology and the Post-9/11 early 21st century. ***This course is required for graduation and should be taken during junior year.***

<b>U.S. HISTORY II HONORS</b>	<b>CRS H1117</b>	<b>GR 11</b>	<b>CR1</b>	<b>Y</b>
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This U.S. History II course covers the span of years from 1920 until the present. In the first semester, the scholars will learn about major events that include the Great Depression, World War II, the Cold War, and the Civil Rights Era. The second semester will begin with the 1960s and the Vietnam War and continue through to the present day. The course will cover the tumultuous 1970s, the Reagan Era, the Age of Technology and the Post-9/11 early 21st century. ***This course is required for graduation and should be taken during junior year. Prerequisite: Grade of B- or better in U.S. History I CP or passing grade in U.S. History I Honors and receive the recommendation of his/her teacher.***

<b>U.S. HISTORY (HIS101) DUAL ENROLLMENT - NECC</b>	<b>CRS H1122EC</b>	<b>GR 11</b>	<b>CR1</b>	<b>Y</b>
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This course is a survey of American history from 1607-1865. It will trace the political, social, cultural and economic development of the United States from colonial times through the Civil War. Special attention will be given to political theory, the role of leadership, America's expansion across the continent and the rising tide of sectionalism that results in the Civil War. ***Prerequisite: Placement Testing. This class is taught at NECC.***

<b>WORLD HISTORY II CP</b>	<b>CRS H1111</b>	<b>GR 9</b>	<b>CR1</b>	<b>Y</b>
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This course covers the American and French Revolutions, rise of nationalism, industrial revolution, western imperialism, WWI, the Great Depression, WWII, the rise of Communism and the Cold War, decolonization, the global economy, and the post-9/11 era. Additionally, students will learn about genocides that have happened throughout history. This course is taught with a sheltered language instructional approach to provide maximum comprehension of the content while assisting with the acquisition of academic language skills appropriate to the subject area. Significant emphasis is placed upon acquisition of academic vocabulary, syntax and grammar as well as related reading and writing skills. ***This course is required for graduation and should be taken during freshman year. Prerequisite: Recommendation 8th grade History teacher.***

<b>WORLD HISTORY II HONORS</b>	<b>CRS H1109</b>	<b>GR 9</b>	<b>CR1</b>	<b>Y</b>
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This course covers the American and French Revolutions, rise of nationalism, industrial revolution, western imperialism, WWI, the Great Depression, WWII, the rise of Communism and the Cold War, decolonization, the global economy, and the post-9/11 era. Additionally, students will learn about genocides that have happened throughout history. This course is taught with a sheltered language instructional approach to provide maximum comprehension of the content while assisting with the acquisition of academic language skills appropriate to the subject area. Significant emphasis is placed upon acquisition of academic vocabulary, syntax and grammar as well as related reading and writing skills. ***This course is required for graduation and should be taken during freshman year. Prerequisite: Recommendation 8th grade History teacher.***

# HISTORY ELECTIVES

## AP RESEARCH

CRS H0100

GR 11 – 12

CR1

Y

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

*Prerequisite: Students must complete AP Seminar and all of its required research components in order to enroll in AP Research.*

## AP AFRICAN AMERICAN STUDIES

CRS H1692

GR 11 – 12

CR1

Y

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with rich and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. The course is organized through four chronological thematic units: Origins of the African Diaspora (~900 BCE-16th century); Freedom, Enslavement and Resistance (16th century-1865); The Practice of Freedom (1860s-1940s); and Movements and Debates (1940s-2000s). Scholars selecting AP African American Studies must take the Advanced Placement Examination in African American Studies, for which college credit may be awarded.

## AP U.S. GOVERNMENT AND POLITICS

CRS H1200

GR 11 – 12

CR1

Y

U.S. Government and Politics is designed to give scholars a critical perspective on politics and government in the United States. This course is an in-depth study of general concepts used to interpret American politics combined with the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. Topics will include: the U.S. Constitution, the three branches of government, impact of mass media, impact of special interest groups, the election process, and the impact of polling, civil rights cases and the law-making process. *Prerequisite: Successful completion of, or concurrent registration in a core History course with a B- or better. School to Career requirement option.*

## AMERICAN HISTORY THROUGH FILM CP

CRS H9719

GR 10 – 12

CR ½

S

This semester course offers students the opportunity to examine history through the camera lens. Students will learn to analyze films critically in an attempt to understand the filmmaking process and to evaluate film as a cultural and historical artifact. Course requirements include film screenings, assigned readings, position papers, and a final exam. As critical film viewing is integral to the curriculum, regular attendance to the class is mandatory.

## AMERICAN HISTORY THROUGH FILM HONORS

CRS H1686

GR 10 – 12

CR ½

S

This semester course offers students the opportunity to examine history through the camera lens. Students will learn to analyze films critically in an attempt to understand the filmmaking process and to evaluate film as a cultural and historical artifact. Course requirements include film screenings, assigned readings, position papers, and a final exam. As critical film viewing is integral to the curriculum, regular attendance to the class is mandatory. *As an Honors class, this section will include additional open response assessments, writing and research projects.*



**CHILD PSYCHOLOGY I CP****CRS H1645****GR 10 – 12****CR ½****S**

In **Child Psychology I**, students will study prenatal development, labor and delivery, and the physical, social-emotional, and intellectual development of children during infancy (birth to age 2). They will also learn about selected topics in parenting and childcare. Current articles and videos related to child development, childcare, and parenting will supplement the class textbook. ***School to Career requirement option YOU MAY NOT TAKE IF YOU HAVE ALREADY TAKEN CHILD PSYCH 1 OR 2.***

**CHILD PSYCHOLOGY I HONORS****CRS H1648****GR 10 – 12****CR ½****S**

In **Child Psychology I**, students will study prenatal development, labor and delivery, and the physical, social-emotional, and intellectual development of children during infancy (birth to age 2). They will also learn about selected topics in parenting and childcare. Current articles and videos related to child development, childcare, and parenting will supplement the class textbook. ***Honors level scholars will complete an independent project each term in addition to other course requirements. School to Career requirement option YOU MAY NOT TAKE IF YOU HAVE ALREADY TAKEN CHILD PSYCH 1 OR 2.***

**CHILD PSYCHOLOGY II: EARLY CHILDHOOD DEVELOPMENT CP****CRS H1662****GR 11 – 12****CR ½****S**

In **Child Psychology II**, students will study the psychology of human development across the lifespan. Students will learn about major theories of human development. Students will also study the physical, social-emotional, and intellectual development of children during early childhood (age 2-8) and middle childhood (age 9-11). The main text for the class comes from the Lumen Learning Human Development online course. (<https://courses.lumenlearning.com>) Current articles and videos related to child development, early childhood education and parenting will supplement the online text. ***Prerequisite: Child Psychology I.***

**CHILD PSYCHOLOGY II: EARLY CHILDHOOD DEVELOPMENT HONORS****CRS H1663****GR 11 – 12****CR ½****S**

In **Child Psychology II**, students will study the psychology of human development across the lifespan. Students will learn about major theories of human development. Students will also study the physical, social-emotional, and intellectual development of children during early childhood (age 2-8) and middle childhood (age 9-11). The main text for the class comes from the Lumen Learning Human Development online course. (<https://courses.lumenlearning.com>) Current articles and videos related to child development, early childhood education and parenting will supplement the online text. ***Honors level scholars will complete an independent project each term in addition to other course requirements. Prerequisite: Child Psychology I***

**CLASSICAL GRECO-ROMAN MYTHOLOGY AND CULTURE CP CRS H1655 GR 9 – 12 CR ½ S**

This course will look at the history of Greco-Roman mythology and how it influenced classical culture and daily life throughout history. We will study the history of myths of the major Olympian gods, how those myths historically have been presented in classical times, and how it shaped their society. We will look at a variety of historical sources including Homer, Hesiod, and others. We will also study the culture and daily life of historical Greece and Rome, everything from their homes and hairstyles to their clothing and culture.

**CLASSICAL GRECO-ROMAN MYTHOLOGY AND CULTURE HONORS****CRS H1684****GR 9****CR ½****S**

This course will look at the history of Greco-Roman mythology and how it influenced classical culture and daily life throughout history. We will study the history of myths of the major Olympian gods, how those myths historically have been presented in classical times, and how it shaped their society. We will look at a variety of historical sources including Homer, Hesiod, and others. We will also study the culture and daily life of historical Greece and Rome, everything from their homes and hairstyles to their clothing and culture. ***As an Honors class, this section will include additional open response assessments, writing and research projects***

<b>CONSTITUTIONAL LAW CP</b>	<b>CRS H1133</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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Constitutional Law is a class that will examine the US Constitution and the legal system in the United States of America. The course begins with a complete study of the Constitution itself, then examines the constitutionality of a number of laws and government policies through case studies. These case studies deal with First Amendment issues involving Freedom of Religion and Expression; Fourth Amendment rights such as Freedom from illegal searches and seizures by the government; Eighth Amendment protections against cruel and unusual punishment; and the Equal Protection clause of the Fourteenth Amendment. Other constitutional issues that are important debates in current events will also be examined. The course also includes the study of criminal law and how it is applied by the various states in our country. ***School to Career requirement option.***

<b>CONSTITUTIONAL LAW HONORS</b>	<b>CRS H1134</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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Constitutional Law is a class that will examine the US Constitution and the legal system in the United States of America. The course begins with a complete study of the Constitution itself, then examines the constitutionality of a number of laws and government policies through case studies. These case studies deal with First Amendment issues involving Freedom of Religion and Expression; Fourth Amendment rights such as Freedom from illegal searches and seizures by the government; Eighth Amendment protections against cruel and unusual punishment; and the Equal Protection clause of the Fourteenth Amendment. Other constitutional issues that are important debates in current events will also be examined. The course also includes the study of criminal law and how it is applied by the various states in our country. ***School to Career requirement option.***

<b>CRIMINAL JUSTICE CP</b>	<b>CRS H1657</b>	<b>GR 9 – 12</b>	<b>CR ½</b>	<b>S</b>
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It is an introductory course which provides an overview of the criminal justice system including criminal law, policing, punishment and corrections, and juvenile justice. There will be opportunities to hear from members of the law enforcement community and to learn about the process of having a career in the world of criminal justice.

<b>CRIMINAL JUSTICE HONORS</b>	<b>CRS H1685</b>	<b>GR 9 – 12</b>	<b>CR ½</b>	<b>S</b>
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It is an introductory course which provides an overview of the criminal justice system including criminal law, policing, punishment and corrections, and juvenile justice. There will be opportunities to hear from members of the law enforcement community and to learn about the process of having a career in the world of criminal justice. ***As an Honors class, this section will include additional open response assessments, writing and research projects***

<b>GENDER STUDIES CP</b>	<b>CRS H9674</b>	<b>GR 11 – 12</b>	<b>CR ½</b>	<b>S</b>
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Gender studies is an interdisciplinary study that analyzes gender identity and how it manifests in society in media, politics, history etc. It includes women's studies, men's studies, and LGBT studies. It also analyzes how race and class intersect with gender. Women's studies examines gender as a social construct, the contributions of women, and the experiences of women. This course will highlight some major issues that primarily affect women, such as sexual assault and workplace inequality. Scholars will learn about the history of gender in the United States and issues related to gender in the present day. Class time will be designated to examining media that touches on gender (articles, documentaries, etc.) and discussions on these subjects.

<b>GENDER STUDIES HONORS</b>	<b>CRS H9610</b>	<b>GR 11 – 12</b>	<b>CR ½</b>	<b>S</b>
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Gender studies is an interdisciplinary study that analyzes gender identity and how it manifests in society in media, politics, history etc. It includes women's studies, men's studies, and LGBT studies. It also analyzes how race and class intersect with gender. Women's studies examines gender as a social construct, the contributions of women, and the experiences of women. This course will highlight some major issues that primarily affect women, such as sexual assault and workplace inequality. Scholars will learn about the history of gender in the United States and issues related to gender in the present day. Class time will be designated to examining media

that touches on gender (articles, documentaries, etc.) and discussions on these subjects. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**HISTORY OF THE CITY OF HAVERHILL CP    CRS H1125                      GR 9 – 12                      CR ½                      S**

Haverhill was settled in 1640, Bradford in 1639. In 1897, they became one. Scholars will use a variety of sources to explore the fascinating story of the growth and development of the city of Haverhill, and the city's place in the state and region. Scholars may visit sites they study, and will do original research in areas of particular interest.

**HISTORY OF THE CITY OF HAVERHILL HONORS    CRS H1680    GR 9 – 12                      CR ½                      S**

Haverhill was settled in 1640, Bradford in 1639. In 1897, they became one. Scholars will use a variety of sources to explore the fascinating story of the growth and development of the city of Haverhill, and the city's place in Massachusetts and New England. Scholars may visit sites they study, and will do original research in areas of particular interest. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**INTERNATIONAL RELATIONS CP                      CRS H1135                      GR 9 – 12                      CR ½                      S**

The International Relations program has been created to reinforce the understanding of both historic and contemporary relations among nations. Understanding each other is the key to world peace, and we feel it is an essential lesson for all scholars to learn. Key elements of the course include: (1) political, social and economic world issues, with a focus on current global events, (2) training in research methodology; (3) public speaking; (4) persuasively presenting ideas to others; (5) the elements of diplomacy; (6) the inner workings of the United Nations and other global organizations and; (7) objectively assessing views contrary to one's own. Scholars will have the option to extend their learning by entering into "controlled competition" with other schools through our Model United Nations Club.

**INTERNATIONAL RELATIONS HONORS                      CRS H1139                      GR 9 – 12                      CR ½                      S**

The International Relations course is also offered as an Honors elective. In order to earn Honors credit for the course, the scholar must fulfill the following additional requirements: 1. Write weekly International Event Summaries, 2. Become leaders in peer group projects, including final projects; 3. Have responsibility for longer written components on summative assessments. ***The final/midterm projects will have a written component that will be longer for the Honors scholar.***

**INDEPENDENT HISTORICAL RESEARCH                      CRS H1687                      GR 9– 12                      CR ½                      S**

Independent Historical Research is a course designed for the serious history student who would like the opportunity to undertake independently designed and self-directed research under the supervision of a member of the department. Students will be expected to develop a research proposal for review and approval by the History Department. Once the student's proposal is approved, the student will be expected to conduct high-quality research through primary and secondary sources and produce a project meeting the requirements of the annual National History Day program, or an alternative presentation format approved in advance by the History Department faculty, such as a documentary, research paper, exhibit, or published history article. Students may also have the ability to present their independent research project at the National History Day regional conference each spring.

**INTRO TO CRIMINAL JUSTICE (EARLY COLLEGE) CRS H1661EC    GR 11 – 12                      CR 1                      S**  
**DUAL ENROLLMENT - NECC**

This course provides an introduction to the Criminal Justice system in the United States. Specific attention is paid to essential terminology, the definitions of index crimes, the structure of the federal and state court systems, appellate procedures, principles of federalism, criminal charges and defenses to crimes, juvenile and adult justice

systems, the criminal trial, analysis of constitutional issues and the rules of criminal procedure at the federal and state levels. ***Prerequisite: Placement Testing. This class is taught at NECC.***

**INTRODUCTION TO PSYCHOLOGY (PSY101)                      CRS H1144EC      GR -12   CR 1                      S**  
**DUAL ENROLLMENT - NECC**

This course surveys the major areas of contemporary psychology and its applications to everyday life. Scholars will focus on psychological methods of inquiry while exploring the biological, cognitive and sociocultural factors that influence behavior. Topics include, but are not limited to, biological basis of behavior, cognition, learning, human development, personality, motivations and emotions, states of consciousness, sensory processes and psychopathology. ***Prerequisite: Placement Testing. This class is taught at NECC.***

**INTRODUCTION TO GOVERNMENT CP                      CRS H1154      GR 9 – 12                      CR ½                      S**

This course will teach and encourage scholars to become informed, responsible and engaged citizens through instruction on citizenry rights, voting, the legal system, state and local government, and how to actively participate in their local communities.

**INTRODUCTION TO GOVERNMENT HONORS      CRS H1159                      GR 9 – 12                      CR ½                      S**

This course will teach and encourage scholars to become informed, responsible and engaged citizens through instruction on citizenry rights, voting, the legal system, state and local government, and how to actively participate in their local communities. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**JUSTICE AND SOCIETY CP                                      CRS H1666      GR 11 – 12                      CR ½                      S**

This course is uniquely focused to address sociology and how the concept of justice impacts humanity. The course will use textbook activities as well as rely on case study analysis and scholar-led projects which will include action in the community outside of the school day. Computer research will be a significant part of this course. The curriculum material will begin with fundamental instruction on Sociological principles such as social structure, culture, the concept of justice and social interaction, then go on to study crime, conflict, punishment and prison.

**JUSTICE AND SOCIETY HONORS                              CRS H1681      GR 11 – 12                      CR ½                      S**

This course is uniquely focused to address sociology and how the concept of justice impacts humanity. The course will use textbook activities as well as rely on case study analysis and scholar-led projects which will include action in the community outside of the school day. Computer research will be a significant part of this course. The curriculum material will begin with fundamental instruction on Sociological principles such as social structure, culture, the concept of justice and social interaction, then go on to study crime, conflict, punishment and prison. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**MOCK TRIAL CP    CRS H1654                      GR 9 – 12                      CR ½                      S**

The Mock Trial course will cover basic concepts of law, courtroom demeanor, direct and cross examination, opening statements, closing arguments, courtroom exhibits, evidentiary trial objections, and witness portrayal. It will teach scholars to “think like a lawyer” and expose them to the wide range of law-related careers. Scholars will read and analyze court cases, perform mock trials, take direction from actual attorneys in our community. Finally, scholars will prepare and try an actual case before judges and attorneys in the mock trial competition hosted by the Massachusetts Bar Association (held in January/February).

**MOCK TRIAL HONORS****CRS H1656****GR 9 – 12****CR ½****S**

The Mock Trial course will cover basic concepts of law, courtroom demeanor, direct and cross examination, opening statements, closing arguments, courtroom exhibits, evidentiary trial objections, and witness portrayal. It will teach scholars to “think like a lawyer” and expose them to the wide range of law-related careers. Scholars will read and analyze court cases, perform mock trials, take direction from actual attorneys in our community. Finally, scholars will prepare and try an actual case before judges and attorneys in the mock trial competition hosted by the Massachusetts Bar Association (held in January/February). ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**MODERN WORLD ISSUES CP****CRS H1693****GR 9 – 12****CR1/2****S**

Modern World Issues introduces students to social, political, economic, and environmental challenges facing the world today. Students will explore economic systems, human rights, global conflicts, environmental issues, human health concerns, and the United States’ position in the world. Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to conduct research, analyze sources, make arguments, and take informed action. In written assignments and projects, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students’ progress in the course.

**MODERN WORLD ISSUES HONORS CRS H1694****GR 9 – 12****CR1/2****S**

Modern World Issues introduces students to social, political, economic, and environmental challenges facing the world today. Students will explore economic systems, human rights, global conflicts, environmental issues, human health concerns, and the United States’ position in the world. Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to conduct research, analyze sources, make arguments, and take informed action. In written assignments and projects, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students’ progress in the course. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**PHILOSOPHY****CRS H1651****GR 10 – 12****CR ½****S**

In this course, scholars will learn the specialized vocabulary of Philosophy as well as discuss fundamental questions and some of the answers that have been given over time. They will discover that the same questions, which were of interest to ancient peoples are interesting to us: "What is the good life", "What is Virtue", "Is there purpose in life?" "What is Justice?" "To what extent are we responsible for others?" "What is Truth and how do we know it?" As a consequence of questions such as these, scholars will also apply some of the answers to ethical issues of a contemporary nature. Scholars who elect this course should have a strong commitment to reading primary sources, engaging in non-argumentative discussion and preparing insightful essays. Honors level.

**PSYCHOLOGY CP****CRS H1127****GR 11 – 12****CR ½****S**

Major goals of the course include promoting an interest in Psychology and the study of the following topics: personality, intelligence, and theories of development, abnormal behavior, frustration, anger and other areas. The course is designed so that scholars working at all levels can find success in this class. ***Prerequisite: Successful completion of, or concurrent registration in a core History class. School to Career requirement option.***

**PSYCHOLOGY HONORS****CRS H1130****GR 11 - 12****CR ½****S**

The curriculum of this course is based on a college introductory course. A general knowledge of biology and anatomy is recommended. The course’s areas of study will include Personality Theories, Abnormal Psychology, Learning Theories, Violence and Criminal Behavior, Psychobiology and Perception. There will be an emphasis on the analysis of the major theorists in the discipline of Psychology. Enrollment in this course will receive

Honors credit. Proficient writing and reading skills are essential to successfully completing this course.

**Prerequisite:** *Scholars are required to have successfully completed their previous year's English and their core History class with a B- or better. School to Career requirement option.*

**SOCIOLOGY CP                      CRS H1641                      GR 10 – 12                      CR ½                      S**

In this course, scholars will explore the importance of family in terms of their present, future, and career possibilities. They will learn the value of goals and set up a plan to meet these goals. Scholars will read, listen to lectures and discuss a wide variety of issues, including today's family, family interactions, family crises, money and time management, balancing family and work, and citizenship roles. Scholars will conduct research and report on their findings.

**SOCIOLOGY HONORS                      CRS H1682                      GR 10 – 12                      CR ½                      S**

In this course, scholars will explore the importance of family in terms of their present, future, and career possibilities. They will learn the value of goals and set up a plan to meet these goals. Scholars will read, listen to lectures and discuss a wide variety of issues, including today's family, family interactions, family crises, money and time management, balancing family and work, and citizenship roles. Scholars will conduct research and report on their findings. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**THE HOLOCAUST AND CRIMES                      CRS H1140                      GR 10 – 12                      CR ½                      S**  
**AGAINST HUMANITY CP**

This course offers a comprehensive examination of the history of the Holocaust and crimes against human civilization. The core focus of the class is the analysis of the history of anti-Semitism, the formation of the National Socialist regime, and the execution of six million European Jews and millions of others by the Nazi's. This investigation includes the Holocaust's relationship to ideals of justice and genocide before and after World War II. To conduct this study, scholars will investigate records from survivors, nations, institutions, museums, popular culture, media, and historians who have constructed a history of the Holocaust.

**THE HOLOCAUST AND CRIMES                      CRS H1683                      GR 10 – 12                      CR ½                      S**  
**AGAINST HUMANITY HONORS**

This course offers a comprehensive examination of the history of the Holocaust and crimes against human civilization. The core focus of the class is the analysis of the history of anti-Semitism, the formation of the National Socialist regime, and the execution of six million European Jews and millions of others by the Nazi's. This investigation includes the Holocaust's relationship to ideals of justice and genocide before and after World War II. To conduct this study, scholars will investigate records from survivors, nations, institutions, museums, popular culture, media, and historians who have constructed a history of the Holocaust. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**THE WORLD WARS THROUGH FILM AND LITERATURE CP                      CRS H1695                      GR 9 – 12                      CR1/2                      S**

Students will gain an in-depth understanding of World War I and World War II through the powerful lens of iconic films and important works of literature. The course will also focus on how the legacy of the world wars continues to shape and impact the world around us in the 21st century.

**THE WORLD WARS THROUGH FILM AND LITERATURE HONORS                      CRS H1696                      GR 9 – 12                      CR1/2                      S**

Students will gain an in-depth understanding of World War I and World War II through the powerful lens of iconic films and important works of literature. The course will also focus on how the legacy of the world wars continues to shape and impact the world around us in the 21st century. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

**WORLD GEOGRAPHY WESTERN CIVILIZATIONS CP** **CRS H1123 GR 10 – 12 CR ½ S**

World Geography Western Civilizations focuses on the relationships among people, places, and environments that result in geographic patterns as it pertains to the areas of North and South America, Latin America, and Europe. Students will use geographic methods to compare and analyze landforms, climates, and natural resources, as well as cultural, political, economic, and religious characteristics of these regions. Students will use a variety of interdisciplinary sources, both primary and secondary, such as maps, pictures, and documents to learn about the geography of these regions. Special emphasis will be placed on current events in relation to geopolitical, geocultural, and environmental concerns within each region.

**WORLD GEOGRAPHY WESTERN CIVILIZATIONS HONORS** **CRS H1688 GR 10 – 12 CR ½ S**

World Geography Western Civilizations focuses on the relationships among people, places, and environments that result in geographic patterns as it pertains to the areas of North and South America, Latin America, and Europe. Students will use geographic methods to compare and analyze landforms, climates, and natural resources, as well as cultural, political, economic, and religious characteristics of these regions. Students will use a variety of interdisciplinary sources, both primary and secondary, such as maps, pictures, and documents to learn about the geography of these regions. Special emphasis will be placed on current events in relation to geopolitical, geocultural, and environmental concerns within each region. ***As an Honors class, this section will include additional open response assessments, writing and research projects***

**WORLD GEOGRAPHY EASTERN CIVILIZATIONS CP** **CRS H1689 GR 10 – 12 CR ½ S**

World Geography Eastern Civilizations focuses on the relationships among people, places, and environments that result in geographic patterns as it pertains to the areas of Asia, Africa, and Oceanic/Australia. Students will use geographic methods to compare and analyze landforms, climates, and natural resources, as well as cultural, political, economic, and religious characteristics of these regions. Students will use a variety of interdisciplinary sources, both primary and secondary, such as maps, pictures, and documents to learn about the geography of these regions. Special emphasis will be placed on current events in relation to geopolitical, geocultural, and environmental concerns within each region.

**WORLD GEOGRAPHY EASTERN CIVILIZATIONS HONORS** **CRS H1691 GR 10 – 12 CR ½ S**

World Geography Eastern Civilizations focuses on the relationships among people, places, and environments that result in geographic patterns as it pertains to the areas of Asia, Africa, and Oceanic/Australia. Students will use geographic methods to compare and analyze landforms, climates, and natural resources, as well as cultural, political, economic, and religious characteristics of these regions. Students will use a variety of interdisciplinary sources, both primary and secondary, such as maps, pictures, and documents to learn about the geography of these regions. Special emphasis will be placed on current events in relation to geopolitical, geocultural, and environmental concerns within each region. ***As an Honors class, this section will include additional open response assessments, writing and research projects***

**WORLD HISTORY THROUGH FILM CP** **CRS H1697 GR 9 – 12 CR1/2 S**

This semester course offers students the opportunity to examine events from World History through the camera lens. Students will learn to analyze films critically in an attempt to understand the filmmaking process and to evaluate film as a cultural and historical artifact. Course requirements include film screenings, assigned readings, position papers, and a final exam. As critical film viewing is integral to the curriculum, regular attendance to the class is mandatory. This is a companion course to American History Through Film, but there are no prerequisites.

**WORLD HISTORY THROUGH FILM HONORS** **CRS H1698 GR 9 – 12 CR1/2 S**

This semester course offers students the opportunity to examine events from World History through the camera lens. Students will learn to analyze films critically in an attempt to understand the filmmaking process and to evaluate film as a cultural and historical artifact. Course requirements include film screenings, assigned readings, position papers, and a final exam. As critical film viewing is integral to the curriculum, regular attendance to the class is mandatory. This is

a companion course to American History Through Film, but there are no prerequisites. ***As an Honors class, this section will include additional open response assessments, writing and research projects.***

## MATHEMATICS

Haverhill High School offers a full array of courses in mathematics and computer programming. Whether a scholar is planning to attend college or move into the workplace, a sound mathematical background is necessary. All scholars at Haverhill High School are required to pass a minimum of three non-elective math courses, including a complete course in Algebra I. Most colleges, universities, and applied technology institutions recommend that scholars successfully complete 4 years of mathematics. Mass Core, the state recommended program of study, recommends 4 years of mathematics in order for high school graduates to be career and college ready. Courses in grades 9 and 10 focus on the content, skills, and strategies assessed by the Mathematics MCAS test which is administered each year in May. The goal of the mathematics department is to have all scholars achieve mathematical competence through a strong program that emphasizes reasoning, communication skills, problem solving, making connections, and technological literacy.

It is important to know that the use of a graphing calculator is permitted on the MCAS, PSAT, SAT, ACT, and AP exams. The mathematics staff at Haverhill High School is committed to maintaining high standards and encouraging all scholars to participate in academically challenging courses that will better prepare them for college and 21<sup>st</sup> century careers.

### **ADVANCED QUANTITATIVE REASONING CP      CRS H2265   GR 11 – 12      CR 1      Y**

This course is a fourth-year math course designed to help scholars continue their study of mathematics as an alternative to precalculus. In this course, scholars will apply their reasoning, modeling and change, analyzing information and decision-making skills with an emphasis on real-world problem solving and applications. Topics will include: vector and matrix quantities, trigonometric functions, statistics and probability, and conic sections.

***Prerequisites: Grade of C or better in Algebra II and recommendation of mathematics teacher. NOTE: Scholars who have passed Pre-Calculus cannot take this course for credit.***

### **ADVANCED QUANTITATIVE REASONING HONORS      CRS H2263   GR 11 – 12      CR 1      Y**

This course is a fourth-year math course designed to help scholars continue their study of mathematics as an alternative to precalculus. In this course, scholars will apply their reasoning, modeling and change, analyzing information and decision-making skills with an emphasis on real-world problem solving and applications. Topics will include: vector and matrix quantities, trigonometric functions, statistics and probability, and conic sections.

***Prerequisites: Grade of C or better in Algebra II and recommendation of mathematics teacher. NOTE: Scholars who have passed Pre-Calculus cannot take this course for credit.***

### **ALGEBRA & TRIGONOMETRY: A FUNCTIONS APPROACH   CRS H2258   GR 11 – 12      CR 1      Y**

This course is a fourth-year math course designed to help scholars acquire a solid foundation in algebra and trigonometry and prepare them for college math courses. The course provides a functions-based approach to the study of linear, polynomial, rational, exponential and logarithmic functions with an emphasis on multiple representations and real-life applications. It also presents basic concepts in trigonometry, including the definitions of trigonometric functions, graphs, radian measure, trigonometric identities and equations, and solving triangles. Additional topics may include electricity, vectors, complex numbers, matrices and sequences. These topics will be supplemented with practice and preparation for college entrance and placement exams, including the SAT and Accuplacer. Scholars who have passed Pre-Calculus cannot take this course for credit.

***Prerequisite: Grade of C or better in Algebra II H, or grade of B-or better in Algebra II CP; plus a score of proficient or higher on the grade 10 math MCAS, and recommendation of a mathematics teacher.***



**ALGEBRA I CP****CRS H2209****GR 9****CR 1****Y**

This course follows the common core standards for Algebra 1 and integrates the Standards for Mathematical Practice. Topics include solving and graphing linear equations and inequalities, systems of linear equations, exponential functions and sequences, polynomials, factoring, quadratic functions, operations of exponents and radicals, and data analysis, and graphing absolute value functions. A variety of mathematical models, real-life contexts, and technologies are used to develop conceptual understandings. ***Prerequisites: A passing grade in grade 8 mathematics course, and needs improvement or above scores on MCAS testing, and recommendation of mathematics teacher.***

**ALGEBRA I HONORS****CRS H2207****GR 9****CR 1****Y**

This in-depth and comprehensive course follows the common core standards for Algebra 1 and integrates the Standards for Mathematical Practice. Topics include solving and graphing linear equations and inequalities, systems of linear equations, exponential functions and sequences, polynomials, factoring, quadratic functions, operations of exponents and radicals, and data analysis, and graphing absolute value functions. A variety of mathematical models, real-life contexts, and technologies are used to develop conceptual understandings. The course focuses on functions and applications. ***Prerequisites: Grade of B or better in a grade 8 Algebra I, or A- or better in grade 8 mathematics course, proficient or above scores on MCAS testing, and recommendation of mathematics teacher.***

**ALGEBRA II CP****CRS H2225****GR 10 – 12****CR 1****Y**

This course continues a rigorous presentation of the number system properties begun in Algebra I. Content includes the study of arithmetic and geometric sequences, quadratic functions, polynomials and polynomial functions, rational equations and functions, radical equations and functions, exponential and logarithmic functions, probability, design of statistical studies (including gathering data, making inferences and justifying conclusions), trigonometric functions, and choosing a function. Some of the topics covered within these units of study are solving systems involving both linear and quadratic functions, the fundamental theorem of algebra, complex numbers, and the binomial theorem.

***Prerequisites: Grade of C or better in both Algebra I CP and Geometry CP, and recommendation of mathematics teacher. NOTE: For enrollment by a sophomore, the recommendation of the freshman teacher is necessary. Students not meeting these prerequisites should be placed in Intermediate Algebra.***

**ALGEBRA II HONORS****CRS H2223****GR 10 – 12****CR 1****Y**

This course continues a rigorous presentation of the number system properties begun in Algebra I. Content includes the study of arithmetic and geometric sequences, quadratic functions, polynomials and polynomial functions, rational equations and functions, radical equations and functions, exponential and logarithmic functions, probability, design of statistical studies (including gathering data, making inferences and justifying conclusions), trigonometric functions, and choosing a function. Some of the topics covered within these units of study are solving systems involving both linear and quadratic functions, the fundamental theorem of algebra, complex numbers, and the binomial theorem. ***Prerequisites: Grade of B- or better in both Algebra I and Geometry. NOTE: A freshman teacher recommendation is required for enrollment of a sophomore.***

**AP CALCULUS - AB****CRS H2234****GR 11 – 12****CR 1****Y**

This course is an introduction to the fundamentals of differential and integral calculus for scholars planning to take advanced mathematics courses in college. Topics covered include: limits and continuity, the definition of differentiation and its fundamental properties, differentiation of composite, implicit, and inverse functions, contextual and analytical applications of differentiation, integration and accumulation of change, differential equations and applications of integration. Calculus AB is the equivalent of one semester of college calculus. Scholars in this course are required to take the Calculus AB exam. A TI-84 plus graphing calculator or equivalent

is required. **Prerequisites:** *Grade of B or better in Pre-Calculus Honors, recommendation of mathematics teacher, and placement exam.*

**AP CALCULUS - BC                      CRS H2235                      GR 11 – 12                      CR 1                      Y**

This course is an introduction to the fundamentals of differential and integral calculus for scholars planning to take advanced mathematics courses in college. Topics covered include: limits and continuity, the definition of differentiation and the fundamental properties, differentiation of composite, implicit, and inverse functions, contextual and analytical applications of differentiation, integration and accumulation of change, differential equations and applications of integration, parametric equations, polar coordinates and vector-valued functions, infinite sequences and series. Calculus BC is the equivalent of two semesters of college calculus. Scholars in this course are required to take the exam for Calculus BC. A TI-84 plus graphing calculator or equivalent is required. **Prerequisites:** *Grade of B or better in Pre-Calculus Honors or AP, recommendation of mathematics teacher, and placement exam.*

**AP COMPUTER SCIENCE – A                      CRS H2246                      GR 11 – 12                      CR 1                      Y**

This is an advanced computer-science programming course with emphasis on Java programming. It provides scholars with the opportunity to apply mathematical applications using object-oriented programming (OOP) and object-oriented design (OOD) with an emphasis on classes, methods, looping and logic, algorithms and inheritance. This course follows a syllabus approved by the College Board, with a professionally developed case study, and will prepare scholars for the AP Computer Science exam, which is mandatory. **Prerequisites:** *Passing grade in Intro to Programming and a B- or better in Algebra II. Technology option*

**AP PRECALCULUS                      CRS H2266                      GR 11 – 12                      CR 1                      Y**

This Honors level course in advanced algebra and functional analysis (with a graphing approach) is designed to prepare scholars for Calculus. Topics include: Parent Functions, their graphs and transformations; Rational Functions; Exponential and Logarithmic Functions; Limits, Trigonometric Functions; Analytical Trigonometry; Matrices, Vectors, Polar Coordinates; and Sequences and Series. Scholars are expected to have mastered key concepts from Algebra II and Geometry. Scholars in this course are required to take the Precalculus exam. A TI 84 plus graphing calculator or equivalent is required. **Prerequisites:** *Grade of B or better in Algebra II H and Geometry H, or a grade of A in Algebra II CP and Geometry CP and recommendation of mathematics teacher.*

**AP STATISTICS                      CRS H2238                      GR 10 – 12                      CR 1                      Y**

This course is equivalent to a college statistics course and covers the entire College Board topic outline for AP Statistics. Scholars will be introduced to the major tools for collecting, analyzing, and drawing conclusions from data through four major conceptual themes: describing patterns and departures from patterns, planning and conducting a study, exploring random phenomena using probability, and estimating population parameters and testing hypotheses. This course requires strong math, reading, writing, and higher level thinking skills. Scholars in this course are required to take the exam for Statistics. A TI 84 plus graphing calculator or equivalent is required. **Prerequisite:** *of B+ or better in Algebra II H with teacher recommendation, or, with the recommendation of the mathematics teacher, an A- or better Geometry H if taken concurrently with Algebra II H.*

**CALCULUS HONORS                      CRS H2232                      GR 12                      CR 1                      Y**

Calculus Honors is a survey course dealing with topics from the first semester of a college calculus course. The topics covered include: a review of precalculus and trigonometry topics, limits, continuity derivatives and include their applications, and integrals and their applications. **Prerequisite:** *Grade of C or better in Precalculus, recommendation of mathematics teacher, and placement exam.*

<b>ELD ALGEBRA I CP</b>	<b>CRS H2277</b>	<b>GR 9 – 11</b>	<b>CR 1</b>	<b>Y</b>
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This course follows the common core standards for Algebra 1 and integrates the Standards for Mathematical Practice. Topics include solving and graphing linear equations and inequalities, systems of linear equations, exponential functions and sequences, polynomials, factoring, quadratic functions, operations of exponents and radicals, and data analysis, and graphing absolute value functions. A variety of mathematical models, real-life contexts, and technologies are used to develop conceptual understandings. ***Prerequisites: Intended for scholars in ELD.***

<b>ELD GEOMETRY CP</b>	<b>CRS H2279</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course formalizes the geometric concepts that scholars have learned in middle school, with an emphasis on reasoning and making mathematical arguments. Scholars will also study fundamental measurement theorems and postulates and apply these rules when solving problems. Scholars will use formal geometric construction tools to formulate reasoning and understanding of significant concepts. Geometric transformations will be utilized as the foundation for the congruence, similarity, quadrilaterals, polygons, and circles units. Scholars will also further explore probability concepts they have learned in middle school. Intended for scholars in ELD. ***Prerequisites: Passing grade in ELD Algebra 1 CP.***

<b>INTEGRATED MATH I</b>	<b>CRS H9750</b>	<b>GR 9</b>	<b>CR 1</b>	<b>Y</b>
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Integrated Math I includes topics of algebra including constants and variables, functions, open phrases and sentences, postulates and properties of real numbers, linear equations, signed numbers, operations, and word problems. Additional topics include solutions of quadratic equations, expressions, and graphing. In addition to learning the core concepts of algebra, in this course scholars will work on maintaining and building on the skills of note taking, organizing resources, and effective use of resources. ***Prerequisites: Recommendation of the student's team.***

<b>INTEGRATED MATH II</b>	<b>CRS H2204</b>	<b>GR 10</b>	<b>CR 1</b>	<b>Y</b>
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This course formalizes the geometric concepts that scholars have learned in middle school, with an emphasis on reasoning and making mathematical arguments. Geometric transformations will be utilized as the foundation for the congruence, similarity, triangle trigonometry, quadrilaterals, polygons, and circles units. Scholars will also further explore probability concepts they have learned in middle school. In addition to learning the core concepts of geometry, in this course scholars will work on maintaining and building on the skills of note taking, organizing resources, and effective use of resources. ***Prerequisites: Passing grade in Integrated Math I.***

<b>INTEGRATED MATH III</b>	<b>CRS H9751</b>	<b>GR 11</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed to help scholars strengthen their algebra and overall math skills. Topics will include: the real number system, solving linear equations, including multi-step equations and absolute value equations, graphing linear functions, writing linear functions, solving systems of linear equations by graphing, substitution, and elimination, polynomials and factoring (quadratics). In addition to learning the core concepts of algebra II, in this course scholars will work on maintaining and building on the skills of note taking, organizing resources, and effective use of resources. ***Prerequisites: Passing grade in Integrated Math II.***

<b>INTEGRATED MATH IV</b>	<b>CRS H9752</b>	<b>GR 12</b>	<b>CR 1</b>	<b>Y</b>
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Students will engage in topics relating to financial literacy that can be applied to real life. These topics will greatly assist students as they move into their post-secondary phase of life. Topics include: Forms of income, paychecks and deductions, expenses and budgets, banking and investing, loans and retirement. In addition to learning the core concepts of financial literacy, in this course scholars will work on maintaining and building on the skills of note taking, organizing resources, and effective use of resources. ***Prerequisites: Passing grade in Integrated Math III and a passing score on the grade 10 MCAS.***

**GEOMETRY CP****CRS H2217****GR 10 – 11****CR 1****Y**

This course formalizes the geometric concepts that scholars have learned in middle school, with an emphasis on reasoning and making mathematical arguments. Scholars will also study fundamental measurement theorems and postulates and apply these rules when solving problems. Scholars will use formal geometric construction tools to formulate reasoning and understanding of significant concepts. Geometric transformations will be utilized as the foundation for the congruence, similarity, triangle trigonometry, quadrilaterals, polygons, and circles units. Scholars will also further explore probability concepts they have learned in middle school.

***Prerequisites: Passing grade in Algebra 1 CP.***

**GEOMETRY HONORS****CRS H2215****GR 9 – 11****CR 1****Y**

This course formalizes the geometric concepts that scholars have learned in middle school, with an emphasis on reasoning and making mathematical arguments. Scholars will also study fundamental measurement theorems and postulates and apply these rules when solving problems. Scholars will use formal geometric construction tools to formulate reasoning and understanding of significant concepts. Geometric transformations will be utilized as the foundation for the congruence, similarity, triangle trigonometry, quadrilaterals, polygons, and circles units. Scholars will also further explore probability concepts they have learned in middle school.

***Prerequisites: Grade greater than or equal to a B- in Algebra I H or a grade greater than or equal to an A- in Algebra I CP and recommendation of teacher. For incoming freshmen, prerequisites include a grade of B or higher in Grade 8 Algebra I, teacher recommendation, and an end of Algebra I or above score on the district end-of-year assessment.***

**PRE-CALCULUS HONORS****CRS H2229****GR 11 – 12****CR 1****Y**

This Honors level course in advanced algebra and functional analysis (with a graphing approach) is designed to prepare scholars for Calculus. Topics include: Parent Functions, their graphs and transformations; Rational Functions; Exponential and Logarithmic Functions; Limits, Trigonometric Functions; Analytical Trigonometry; Matrices, Vectors, Polar Coordinates; and Sequences & Series. Scholars are expected to have mastered the key concepts from Algebra II and Geometry. ***Prerequisite: Grade of B or better in Algebra II H and Geometry H, or grade of A in Algebra II CP and Geometry CP, and recommendation of mathematics teacher.***

**PROBABILITY AND STATISTICS****CRS H2237****GR 11 – 12****CR 1****Y**

This course will cover topics including data collection and ethics, random variables, and statistical measure of data, and probability concepts. Computer software (spreadsheets and data graphing) will be used. It is offered as an elective for college preparatory credit and for a mathematics credit. ***Prerequisite: Grade of D- or better in Algebra II and recommendation of mathematics teacher.***

## SCIENCE AND TECHNOLOGY

[Link to Website](#)

The science curriculum is designed to develop science literacy for all scholars. Globalization of information and economies has made it imperative that scholars understand scientific processes and content. Scholars are required to take three (3) college preparatory courses in the sciences (including 2 courses with laboratory work). Semester science courses without a laboratory component typically do not satisfy the science entrance requirement of four-year colleges.

**ANATOMY & PHYSIOLOGY CP****CRS H3321****GR 11 – 12****CR 1****Y**

This course is recommended for scholars who are interested in human body anatomy and physiology y and provides a survey of cell structure and biochemistry, histology, anatomy and physiology of the human systems including skeletal, muscular, digestive, circulatory, respiratory, excretory, nervous, endocrine, and reproductive

systems. Dissection is an integral part of this course. Alternatives to dissection are available for any scholar who objects to dissection and whose parent or guardian sends a written request to the school. There will be chapter tests, lab reports, as well as assigned class work and homework. ***Prerequisite: B- in Biology or Chemistry and recommendation of a science teacher. This course meets the lab science requirement.***

<b>ANATOMY &amp; PHYSIOLOGY HONORS</b>	<b>CRS H3323</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This is a rigorous, in-depth course recommended for prospective scholars of nursing, physical therapy and related medical fields. Areas studied include cell structure and biochemistry, histology, anatomy and physiology of the human systems including skeletal, muscular, digestive, circulatory, respiratory, excretory, nervous, endocrine, and reproductive systems. Dissection is an integral part of this course in past years. Alternatives to dissection are available for any scholar who objects to dissection and whose parent or guardian sends a written request to the school. There will be worksheets for independent study, chapter tests, laboratory practical exams, lab reports, assigned class work and homework. ***Prerequisite: A minimum grade of B- in Biology or Chemistry and recommendation of a science teacher.***

<b>AP BIOLOGY</b>	<b>CRS H3317</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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AP Biology is designed to be the equivalent of a college introductory course usually taken by science majors during their first year. It provides scholars with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the dynamics of biological science in today's world. The four "Big Ideas" covered in the course are as follows: (1) The process of evolution drives the diversity and unity of life, (2) Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis, (3) Living systems store, retrieve, transmit, and respond to information essential to life processes and (4) Biological systems interact and these systems and their interactions possess complex properties. Scholars take the national AP Biology examination in May. ***Co-requisite: Biology AP Lab Prerequisite: Minimum grade of B- in Biology; and Chemistry or concurrent enrollment in Chemistry. School to Career requirement option when taken as a 4th year of Science.***

<b>AP BIOLOGY LAB</b>	<b>CRS H3317L</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This lab course provides scholars with the lab experience essential in all college introductory Biology courses. The labs are designed to support the content covered in AP Biology and scholars must be concurrently enrolled in that course. Scholars will be expected to write complete laboratory reports following a model template for each College Board Lab as well as independently design and test hypotheses with teacher approval that stem from their own research. ***Co-requisite: AP Biology. Non-weighted course.***

<b>AP CHEMISTRY</b>	<b>CRS H3324</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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Chemistry is designed to meet the objectives of a general chemistry course at the college level. This offering should contribute to the development of the scholar's ability to think clearly and to express ideas orally and in writing with clarity and logic. The course includes the study of chemical principles, chemical equilibrium, thermodynamics, atomic and molecular structure, and aqueous solution chemistry and includes significant lab work. Scholars who select AP Chemistry must take the Examination in Chemistry. **Co-requisite: AP Chemistry Lab. Prerequisites: Minimum grade of B-in Chemistry and recommendation of a science teacher**

<b>AP CHEMISTRY LAB</b>	<b>CRS H3324I</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This lab course provides scholars with the lab experience required in college level chemistry courses. The labs are designed to support the content covered in AP Chemistry and scholars must be concurrently enrolled in that course. **Co-requisite: AP Chemistry Non-weighted course.**

<b>AP ENVIRONMENTAL SCIENCE</b>	<b>CRS H3336</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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The goal of the AP Environmental Science course is to provide scholars with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze

environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. ***Prerequisites: A minimum of B- in Biology, Earth Science or Chemistry and recommendation of a science teacher.***

#### **AP PHYSICS I**

**CRS H3368**

**GR 12**

**CR 1**

**Y**

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and fluids.

***Prerequisites: Grade of B-or better in Algebra II and Chemistry.***

#### **AP RESEARCH**

**CRS H0100**

**GR 11 – 12**

**CR1**

**Y**

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

***Prerequisite: Students must complete AP Seminar and all of its required research components in order to enroll in AP Research.***

#### **BIOLOGY CP**

**CRS H3315**

**GR 9**

**CR 1**

**Y**

Biology CP is a challenging course emphasizing the following topics: molecules to organisms (structures and processes), ecosystems (interactions, energy and dynamics), heredity (inheritance and variation of traits), and biological evolution (unity and diversity). Scholars are expected to apply conceptual knowledge to interpret the biological world. Emphasis is placed on those topics and types of questions likely to be seen on the Biology MCAS test. All scholars will be expected to take the Biology MCAS test at the conclusion of this course as part of their high school graduation requirement. ***Prerequisite: Recommendation of Grade 8 science teacher.***

#### **BIOLOGY HONORS**

**CRS H3313**

**GR 9**

**CR 1**

**Y**

Biology Honors is a rigorous course emphasizing the following topics: molecules to organisms (structures and processes), ecosystems (interactions, energy and dynamics), heredity (inheritance and variation of traits), and biological evolution (unity and diversity). Scholars are expected to apply conceptual knowledge to interpret the biological world. Emphasis is placed on those topics and types of questions likely to be seen on the Biology MCAS test. With all honors level science classes, evaluation includes challenges beyond the classroom setting such as independent projects and self-directed learning experiences. ***Prerequisite: Recommendation of Grade 8 science teacher.***

#### **CHEMISTRY CP**

**CRS H3321**

**GR 10 – 12**

**CR 1**

**Y**

College-Prep Chemistry presents the basic principles of chemistry. This course deals with the properties, composition and structure of matter, the changes that occur in matter, and the energy relationships involved in these changes. The course focuses on the structure of matter and chemical dynamics. Topics include properties of matter, atomic structure, periodicity, chemical bonding, chemical reactions and stoichiometry, gasses and kinetic molecular theory, aqueous solutions, acids and bases, equilibrium. Lab work is an integral part of the course. ***Prerequisite: Completion of Algebra I and Biology with a passing grade and recommendation of a science teacher.***

#### **CHEMISTRY HONORS**

**CRS H3319**

**GR 10 – 12**

**CR 1**

**Y**

Chemistry Honors presents the basic principles of chemistry. This is a rigorous course dealing with the properties, composition and structure of matter, the changes that occur in matter, and the energy relationships

involved in these changes. The course focuses on the structure of matter and chemical dynamics. Topics include properties of matter, atomic structure, periodicity, chemical bonding. The course will also cover chemical reactions and stoichiometry, gasses and kinetic molecular theory, aqueous solutions, acids and bases, and equilibrium. Lab work is an integral part of the course. As with all Honors level science classes, evaluation includes challenges beyond the classroom experience. **Prerequisite: B- in Biology and Algebra I and recommendation of a science teacher.**

**CSI - CRIME SCENE INVESTIGATION      CRS H3373      GR 10 – 12      CR ½      S**

CSI is the application of physics to solve criminal investigations. It includes ballistics, crash scene evidence, blood splatter, the history of criminology. Scholars are taught proper collection, preservation, and laboratory analysis for various samples. **Prerequisites: Biology and Algebra I**

**EARTH SCIENCE CP      CRS H3309      GR 10 – 12      CR 1      Y**

This course is designed to give scholars the opportunity for an in-depth study of Geology, including rocks and minerals, earthquakes, volcanoes, plate tectonics, earth processes, cycles and formation, erosion and weathering, development of soils, renewable and non-renewable resources. Scholars will also explore Geologic time, Oceanography, Meteorology and Space Science topics. Lab work is an integral part of the course. Evaluation includes challenges beyond the classroom experiences. **Prerequisites: Algebra I, Biology and recommendation of a science teacher.**

**EARTH SCIENCE HONORS      CRS H3308      GR 10 – 12      CR 1      Y**

This course is designed to give scholars the opportunity for a rigorous in-depth study of Geology, including rocks and minerals, earthquakes, volcanoes, plate tectonics, earth processes, cycles and formation, erosion and weathering, development of soils, renewable and non-renewable resources. Scholars will also explore Geologic time, Oceanography, Meteorology and Space Science topics. Lab work is an integral part of the course. Evaluation includes challenges beyond the classroom experiences. **Prerequisites: B- or better in Algebra I or Biology and recommendation of a science teacher.**

**ELD BIOLOGY CP      CRS H7343      GR 9      CR 1      Y**

Biology CP is a challenging course emphasizing the following topics: molecules to organisms (structures and processes), ecosystems (interactions, energy and dynamics), heredity (inheritance and variation of traits), and biological evolution (unity and diversity). Scholars are expected to apply conceptual knowledge to interpret the biological world. Emphasis is placed on those topics and types of questions likely to be seen on the Biology MCAS test. All scholars will be expected to take the Biology MCAS test at the conclusion of this course as part of their high school graduation requirement. **Prerequisite: Recommendation of Grade 8 science teacher.** Intended for scholars in ELD 1 and 2.

**ENVIRONMENTAL SCIENCE CP      CRS H3445      GR 10 – 12      CR 1      Y**

Environmental Science is a study of interactions among organisms (including humans) and their environments. These complex relationships result in the survival success of species, the health of biological communities, and the future of our biosphere (the living area of the earth). This class also includes the following topics: water, solid and hazardous wastes, air pollution and global climate change. **Prerequisite: Completion of Algebra I and Biology with a passing grade and recommendation of a science teacher.**

**FORENSIC SCIENCE      CRS H3372      GR 10 – 12      CR ½      S**

Forensic Science is the application of science (chemistry and biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, arson, trace evidence analysis, poisons, drugs and blood samples. Scholars are taught the proper collection, preservation, and laboratory analysis of various samples. **Prerequisites: Biology and Algebra I.**

<b>INTEGRATED SCIENCE I</b>	<b>CRS H8355</b>	<b>GR 9</b>	<b>CR 1</b>	<b>Y</b>
This course is based on the MA Frameworks and parallels the general education program of studies in Biology. Scholars will cover the following topics: Molecules to organisms (structures and processes), ecosystems (interactions, energy, and dynamics) heredity (inheritance and variation of traits), and biological evolution (unity and diversity). Scholars will be expected to take the Biology MCAS test at the conclusion of this course as part of their high school graduation requirement.				
<b>INTEGRATED SCIENCE II</b>	<b>CRS H9755</b>	<b>GR 10 – 11</b>	<b>CR 1</b>	<b>Y</b>
This course is based on the MA Frameworks and parallels the general education program of studies in Ecosystems & Environment. It is a course that allows students to further develop their content knowledge in Biology and the science practices. The content emphasizes the following topics: molecules to organisms (structures and processes), ecosystems (interactions, energy and dynamics), heredity (inheritance and variation of traits), and biological evolution (unity and diversity). Units of study include an emphasis on collaboration and hands-on learning. Scholars will take the Biology MCAS in February				
<b>INTEGRATED SCIENCE III</b>	<b>CRS H9755</b>	<b>GR 11</b>	<b>CR 1</b>	<b>Y</b>
This course is based on the MA Framework and parallels the general education program of studies in Environmental Science. Scholars will cover the interactions of organisms in their environment, the health of biological communities, and the future of the biosphere. <b>Team Approval Required.</b>				
<b>INTRODUCTION TO PROGRAMMING</b>	<b>CRS H2243</b>	<b>GR 10 – 12</b>	<b>CR ½</b>	<b>S</b>
Introduction to Programming uses Python as a basis for learning general programming skills. Scholars learn programming principles by comparing Python to other programming languages. They use models as a way to quickly solve new problems using knowledge and techniques already learned. In addition to programming, scholars learn program design, documentation, formal debugging, and testing. Scholars will strengthen their public speaking skills by presenting projects to community leaders. Finally, scholars examine career opportunities in programming. <b>Prerequisite: Completion of Algebra I. School to Career requirement option, Technology option. CAP 20 Students.</b>				
<b>PHYSICS CP</b>	<b>CRS H3327</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
Physics College Prep presents basic physical principles that require both an understanding of qualitative concepts as well as proficiency in mathematical methods. The course may include a review of algebra; unit conversions; scientific notation; kinematics, forces and their effect on motion; work and energy; and linear momentum. Scholars are expected to integrate these concepts and apply them to a variety of situations. Laboratory work is an integral part of the course. <b>Prerequisite: A passing grade Algebra 1, Biology and recommendation of science teacher.</b>				
<b>PHYSICS HONORS</b>	<b>CRS H3325</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
Physics Honors is a rigorous, fast-paced and in-depth presentation of basic physical principles that require both a deep understanding of qualitative concepts as well as proficiency in mathematical methods. The course may include a review of algebra; unit conversions; scientific notation; kinematics, forces and their effect on motion; work and energy; linear momentum, heat, electromagnetism, waves, optics and other topics as time permits. Scholars are expected to integrate these concepts and apply them to novel situations. Lab investigations, which are a significant component of the course, are designed to foster engagement in the practice of scientific investigations through experimenting, analyzing, making hypotheses, and solving problems in a collaborative setting. <b>Prerequisite: Minimum grade of B- in Geometry or C- in Algebra II and recommendation of science teacher.</b>				



# TECHNOLOGY ELECTIVES

## 3D PRINTING

CRS H6652

GR 11 – 12

CR ½

S

This class will introduce the concept of 3D modeling, prototyping, replication/construction and design. In addition to building a 3D printer from a kit, students will be producing 3D printed projects by designing printable 3D models using TinkerCad, a cloud based 3D modeling software. **Prerequisites: Cap 16 Students. School to Career requirement option, Technology option, Art Grad Requirement option.**

## AP COMPUTER SCIENCE - A

CRS H2246

GR 11 – 12

CR 1

Y

This is an advanced computer-science programming course with emphasis on Java programming. It provides scholars with the opportunity to apply mathematical applications using object-oriented programming (OOP) and object-oriented design (OOD) with an emphasis on classes, methods, looping and logic, algorithms and inheritance. This course follows a syllabus approved by the College Board, with a professionally developed case study, and will prepare scholars for the AP Computer Science exam, which is mandatory. **Prerequisites: Passing grade in Intro to Programming and a B- or better in Algebra II. Technology option.**

## AP COMPUTER SCIENCE PRINCIPLES

CRS H9671

GR 11 – 12

CR 1

Y

AP Computer Science Principles introduces students to the creative aspects of programming, abstractions, algorithms, large datasets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving, without the need for previous programming experience. Students will have the opportunity to create socially useful applications of their own design. **Prerequisite: successful completion of Algebra I with a B- or better. School to Career requirement option. Technology option.**

## COMPUTER TECHNOLOGY

CRS H6601

GR 9 – 12

CR ½

S

Computer Technology is an initial course in computer science and applications offering students a wide exposure to computer applications (G Suites) which will make their academic efforts more effective. Students will also explore introductory concepts in computer science allowing them to make informed decisions about future computer courses and/or careers. The course provides an overview of information technology and introduces students to the basics of hardware and software. Students examine hardware components including peripherals, connectors, and memory. Students explore common operating systems, software applications, and programming languages. Students learn about types of networks and consider contemporary issues such as security, privacy, and technological inequality. Finally, students explore career opportunities in IT. **School to Career requirement option. Technology option. Cap 20 Students**

## GAME DESIGN

CRS H6636

GR 10 – 12

CR ½

S

Game Design offers scholars an opportunity to learn the programming concepts needed to design and develop computer games. Scholars learn about and use loops, variables, functions, and conditionals along with game development applications like Codesters. Scholars will also learn how to create and edit graphics. Scholar projects range from beginner to advance with all scholars completing a final game in order to complete the course. **School to Career requirement option, Technology option. CAP 20 Students.**

## INTRODUCTION TO PROGRAMMING

CRS H2243

GR 10 – 12

CR ½

S

Introduction to Programming uses Python as a basis for learning general programming skills. Scholars learn programming principles by comparing Python to other programming languages. They use models as a way to quickly solve new problems using knowledge and techniques already learned. In addition to programming, scholars learn program design, documentation, formal debugging, and testing. Scholars will strengthen their public speaking skills by presenting projects to community leaders. Finally, scholars examine career

opportunities in programming. **Prerequisite: Completion of Algebra I. School to Career requirement option, Technology option. CAP 20 Students.**

## **ROBOTICS**

**CRS H2280**

**GR 9 – 12**

**CR ½**

**S**

Robotics provides scholars with the opportunity to apply math and engineering to learn how robots are built, move, and “think.” Scholars get hands-on experience with various robotic technologies currently used at Carnegie Mellon and other colleges; building robots, and developing programs to make them move and learning to use sensors. **Prerequisite: Completion of Algebra I. School to Career requirement option, Technology option. CAP 18 Students.**

## **WEB DEVELOPMENT AND DESIGN I**

**CRS H6632**

**GR 10 – 12**

**CR ½**

**S**

This class is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain quality web pages, learn about web design standards and why they are important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which students design and program their own websites for local community / high school organizations and groups. Students will be introduced to HTML5, CSS3 and JavaScript/Typescript (programming languages). Leading to a culminating project.

**Prerequisite: Intro to Programming or completion of Algebra I. Technology option. CAP 20 Students**

# **SUPPORT FOR SCHOLARS WITH INDIVIDUALIZED EDUCATION PLANS**

[Link to Website](#)

Special Education services are determined through the Team process according to federal and state regulations. Eligible students receive the services specified in their Individual Educational Programs that enable them to receive a free and appropriate public education in the least restrictive environment. Each student's program is designed to ensure a successful transition to their individual post high school goal and to support the acquisition of skills necessary to become productive members of the larger community.

## **INSTRUCTIONAL STRATEGIES**

**CRS H8874**

**GR 9 -12**

**CR 1**

**Y**

Students are placed into Instructional Strategies as outlined in their IEP. The Special Education teacher provides review and reteaching of key concepts in other classes, support for organizational, study and planning skills and strategies, and monitoring of work completion and comprehension.

## **TRANSITION SEMINAR**

**CRS H9583**

**GR 11-12**

**CR 1**

**Y**

Students are placed into Transition Seminar as outlined in their IEP. The Special Education teacher provides review and reteaching of key concepts in other classes, support for organizational, study and planning skills and strategies, and monitoring of work completion and comprehension. This course also provides students with the opportunity to reinforce independent living, personal/social skills and career education skills. Practical units of study such as banking, budgeting, preparing for a job, interviewing, completing job applications, and communication skills etc. are content areas emphasized. Attention is also given to academic skills, communication skills, social skills, vocational skills and self-determination skills.

## **FUNCTIONAL COURSES**

*Placement in Functional Courses is based on a scholar's Individualized Education Plan. Courses are offered in small groups and include functional academics, prevocational skills, vocational skills, adult daily living skills, and community awareness. The program also incorporates Home and Personal care skills that stress the importance of dignity and increased opportunities for independence in both home and community settings. All students work on critical skills to enhance their quality of life as they transition into the adult world.*

<b>FUNCTIONAL ENGLISH 9</b>	<b>CRS H9211</b>	<b>GR 9</b>	<b>CR 1</b>	<b>Y</b>
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Students access the grade 9 English Language Arts Core Curriculum. Emphasis will be placed on reading comprehension skills using real world informational texts. Reading for enjoyment is promoted in each course. Vocabulary development will focus on the use of context clues to enable a reader to comprehend more advanced texts. Language skills such as punctuation, capitalization, and sentence structure will be taught and applied to real world situations. Students should expect to participate in class discussions, group work projects, improve their use of technology and will be engaged in hands-on writing.

<b>FUNCTIONAL ENGLISH 10</b>	<b>CRS H9212</b>	<b>GR 10</b>	<b>CR 1</b>	<b>Y</b>
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Students access the grade 10 English Language Arts Core Curriculum. Emphasis will be placed on reading comprehension skills using real world informational texts. Reading for enjoyment is promoted in each course. Vocabulary development will focus on the use of context clues to enable a reader to comprehend more advanced texts. Language skills such as punctuation, capitalization, and sentence structure will be taught and applied to real world situations. Students should expect to participate in class discussions, group work projects, improve their use of technology and will be engaged in hands-on writing.

<b>FUNCTIONAL ENGLISH 11</b>	<b>CRS H9213</b>	<b>GR 11</b>	<b>CR 1</b>	<b>Y</b>
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The English sequence of courses for grades 11 continues to build on reading comprehension skills gained in English 1 and 2 with an emphasis on real world informational texts. Reading for enjoyment is promoted in each course. Students will be introduced to reading encountered in their everyday lives such as local newspapers, bus schedules, restaurant menus, and store flyers. Language skills such as punctuation, and capitalization are applied to real life situations.

<b>FUNCTIONAL ENGLISH 12</b>	<b>CRS H9214</b>	<b>GR 11</b>	<b>CR 1</b>	<b>Y</b>
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The English sequence of courses for grades 12 continues to build on reading comprehension skills gained in previous grades with an emphasis on real world informational texts. Reading for enjoyment is promoted in each course. Students will be introduced to reading encountered in their everyday lives such as local newspapers, bus schedules, restaurant menus, and store flyers. Language skills such as punctuation, and capitalization are applied to real life situations.

<b>FUNCTIONAL MATH 10</b>	<b>CRS H9232</b>	<b>GR 10</b>	<b>CR 1</b>	<b>Y</b>
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This sequence of courses is designed to develop basic computational skills and their applications to real life situations. Students will develop an awareness of mathematics as an essential part of everyday living. They will work on developing the knowledge, understanding and skills required to apply number operations to real life situations. In addition they will work on money skills including counting and making change. Students will develop knowledge and understanding of the impact of time on activities in everyday life and skills in time management. Students will develop skills in the practical application of measurement tools and units.

<b>FUNCTIONAL SOCIAL STUDIES 9, 10, 11,12</b>	<b>GR 9-12</b>	<b>CR 1</b>	<b>Y</b>
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This sequence of courses covers Civics, World History and United States History. Students complete one unit per year in each of the three areas.

<b>FUNCTIONAL DAILY LIVING SKILLS 9-12</b>	<b>GR 9-12</b>	<b>CR 1</b>	<b>Y</b>
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Placement in Fundamentals of Daily Living Skills is determined by a scholar's Individualized Education Plan. The purpose of teaching life skills is to give scholars the ability to increase their success outside of high school. To master life skills scholars must work on these daily for continual growth. Opportunities include participation on supported life skills groups, prevocational opportunities and community integration. Development of social and communication skills is also emphasized. Technology is incorporated to orient students to 21st Century demands including safe

computing and Internet usage as well as assist them in accessing skills in order to become more knowledgeable citizens.

**ADAPTIVE HEALTH                      CRS H8767                      GR 10 – 12   CR ½                      S**

This course will consist of participation in various fitness related activities in combination with valuable health education lessons with the purpose of improving fitness levels and developing a basic understanding of important health and wellness topics. The topics covered in this course will include: fitness, nutrition, managing stress and anxiety, personal care, health behaviors and communicable diseases. In addition, scholars will learn about developing healthy relationships, the lifecycle and understanding of adolescent growth and change, drugs, alcohol and tobacco, injury prevention and safe behaviors and environmental health. \*This class is reserved for specific students on an IEP and will be registered for this course by the EFT.

## WELLNESS

[Link to Website](#)

All scholars are required to take and pass two semesters of physical education (1credit) and two semesters of health (1 credit) totaling two credits. All scholars are required to take and pass Physical Education I prior to taking the additional class to fulfill the graduation requirement. A physical education substitution to be exempt from PE 2 is available for athletes who complete a full season of a sport. Verification will be provided by the Athletic Department to the School Counseling Department. Scholars who are to be medically excused require a note from a physician and the scholar must complete an alternative non-physical assignment. **Scholars' are expected to be prepared for physical activity** by having proper footwear that permits safe movement, and by wearing no jewelry that interferes with, or is unsafe for activity. Lockers are available, but locks are not provided. Scholars are strongly encouraged to bring their own lock and secure their belongings to prevent theft.

**HEALTH I HONORS                      CRS H7731                      GR 9 – 12                      CR ½                      S**

A required course of study that focuses on communication and interpersonal skills, health assessment, risk and protective factors and behavior management. The course promotes lifetime skills and health-enhancing activities. Scholars participate in an assessment of various areas of wellness: physical, emotional, social, life planning, environmental, spiritual, cultural, financial and intellectual wellness. Scholars assess personal wellness, identify resources, set goals, and plan strategies and learn how to look at decision-making. Topics include, but are not limited to: Management of mental wellness, basic nutrition, types of fats, how various nutrients affect the body, BMI, disordered eating and body image, energy drinks, skin cancer, sleep, Internet safety will be explored. Sexuality will focus on basic anatomy and physiology of the male and female reproductive system, STD's, birth control, preventive exams, and basic safety issues in dating will be discussed. Friendships, bullying and harassment will also be addressed within this course. Scholars will maintain journals and evaluate progress throughout the program.

**HEALTH II HONORS                      CRS H7733                      GR 10 – 12                      CR ½                      S**

A required course of study that focuses on character education, which encompasses ethics, morals and values and how they affect decisions in their health behaviors and health related goals. Scholars will focus on enhancing protective factors to reduce health-compromising behaviors. They will learn about resiliency and how to develop healthy behaviors. Scholars will evaluate media and their influences in health as well as learning how to manage anger and other emotions while developing positive communication skills. We will look at risk taking in relation to drug abuse and addiction. Scholars will identify health relationships and personality types that could put them at greater risk for being in unhealthy relationships. Basic emergency skills with a focus on skills based learning will be incorporated into the course. LGBTQ+ will be incorporated into various topics within the course as well as have separate lessons to focus on vocabulary, gender identity and equity. We are also utilizing information from the Safe Schools Program for LGBTQ scholars which is a joint initiative between the Massachusetts Department of

## **PHYSICAL EDUCATION I**

**CRS H7726**

**GR 9 – 12**

**CR ½**

**S**

Successful completion of Physical Education I provides scholars with the necessary knowledge and skills to improve fitness levels in order to live a healthy lifestyle. Physical fitness is essential for optimal physical wellness. Physical Education I focuses on individual skill development in a variety of physical activities. An introductory fitness unit, utilizing the Fitness Center, will focus on proper and effective use of the weight and aerobic equipment. Scholars will also participate in a variety of team and individual/dual sports as a means of gaining more opportunity for physical activity throughout their life. Students will be exposed to a week of water safety and will have access to the swimming pool. This course no longer includes a swim unit.

## **UNIFIED PHYSICAL EDUCATION**

**CRS H9689**

**GR 9 – 12**

**CR ½**

**S**

This course provides students an opportunity to work cooperatively and socially to participate in physical fitness, modified games and lifetime sports, leadership and wellness activities. This class emphasizes the cognitive, affective and psychomotor growth of all participants. Lessons enhance working together in small groups to feel confident and positive when working on new goals and activities. Engaging in all physical education activities alongside peers with and without different abilities, helps foster a true inclusive Physical Education class environment along with friendships. Recommendation of Guidance Counselor and ETF

## **PHYSICAL EDUCATION ELECTIVES**

***Must take one of the following to earn second required physical education .5 credit. Please see above for specifics about the Physical Education Substitution option.***

## **ADVANCED ATHLETIC ENHANCEMENT**

**CRS H7742**

**GR 10 – 12**

**CR ½**

**S**

This course is designed to give students a deeper look into the components of fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will enhance their overall athleticism during the school day so that extracurricular athletic activities can be more focused on skill development and allow more successful outcomes especially if involved in interscholastic competition. The course will allow students to enhance their strength, speed and endurance through consistent practice and rigorous physical activity to include advanced weight training, speed development, and flexibility work. Using modern, data-driven best practices, students will maximize their athletic abilities. Students will increase their knowledge of kinesiology and develop speed, strength and endurance. Students should have experience with fundamentals of weight lifting and plyometric training. Students will be expected to participate in vigorous exercise and give a maximum mental and physical effort. Prerequisite: Completed and passed PE I or the student's varsity team coach recommendation or Varsity Athlete Waiver.

## **AQUATIC ACTIVITIES**

**CRS H9701**

**GR 10 – 12**

**CR ½**

**S**

Swimming is one of the joys of life. As well as being a vital life skill, the ability to swim opens up a raft of opportunities for students to enjoy a healthy, active and safe lifestyle and to confidently participate in aquatic recreational and sporting activities. This course provides appropriate water safety outcomes for all students by implementing an integrated teaching, assessment and reporting document called the Swimming and Water Safety Continuum. Students will develop effective techniques to help improve their swimming and water safety skills as well as muscle conditioning for longevity. The Swimming Continuum is written in a skill-by-skill format and demonstrates the sequential way to learn swimming, water safety skills, and adaptive water games. Aquatics aims to inform minimal competency in areas such as hazards and personal safety in the water; entry and exit; flotation; rescue; survival sequence; underwater; and swimming exercises.

**COMPETITIVE TEAM SPORTS      CRS H7707      GR 10 – 12      CR ½      S**

Team Sports is a semester course that gives scholars a chance to play, coach and officiate various team sports in league and tournament play. The course focuses on sport skill techniques, offense and defense variations, fitness, officiating, rules, drills, and safety procedures. It will also include a high level of competitive play and challenge between students with emphasis on sportsmanship. Scholars will assess their personal fitness level and explore the role of team sports in their lives.

**LIFEGUARDING & CPR      CRS H7740      GR 10 – 12      CR ½      S**

Scholars will take a certified American Red Cross lifeguarding course. Fee may apply if scholars opt to receive official Red Cross certification. Scholars will complete CPR the 1st half of the course and life guarding the 2nd half. ***Prerequisite: Scholars need to have a recommendation from a Physical Education teacher to ensure that they can meet the minimum requirements: Be able to complete a 500 yard swim (20 lengths of the pool) in 25 minutes or faster. Scholars also must complete a timed submerged object recovery from the deep end of the pool to the shallow end in 1min, 30sec. or faster.***

**LIFETIME AND RECREATIONAL ACTIVITIES      CRS H7737      GR 10 – 12      CR ½      S**

Scholars will participate in a variety of non-competitive activities. Class emphasis is on gaining a basic knowledge of individual sports, fitness and lifetime activities. Sports and activities include, but are not limited to, badminton, golf, tennis, walking/jogging, table tennis, disc golf, handball, and pickleball. These sports/activities have been chosen to encourage scholars to participate in physical activity for life and to promote good health and wellness.

**PERSONAL HEALTH AND FITNESS      CRS H7712      GR 10 – 12      CR ½      S**

The emphasis in this course is on muscular strength, endurance, flexibility, and safety. The core focus of this course will be based on scholars using weight training machines, free weights, and plyometric exercises to target specific muscle groups on specific days. This course will also include weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting are all important components in this course. In addition, scholars will monitor and improve their fitness levels by participating in fitness assessments throughout the semester.

**SPORT OFFICIATING CP      CRS H7743      GR 11-12      CR 1/2      S**

This course is web-based with instructional modules, combined with an informative, and inclusive sports officiating education curriculum. These activities help the learner to understand the mechanics and philosophy of officiating, providing learners with engaging classroom activities. Comprehension quizzes at the end of each module ensure that each learner will build a solid foundation of understanding before officiating their first contest. Access to the patented point-of-view video scenarios allows learners to make the call and get instant feedback from their movements. Learners then put knowledge into action by participating in practice/scrimmage settings to hone their officiating mechanics and get a true feel for the game.

**MA State licensure exam will serve as the course's final assessment and officiating two real games in a local recreation or community league setting will complete your 10 hr. Micro internship requirement.**

**Limited seats 20 max. No exceptions**

## WORLD LANGUAGES

Through the study of a world language, scholars are able to experience the differences in the way people think, as well as the differences and similarities in the way other people view our world. In the world languages program, we attempt to prepare our scholars to be proficient in all four language skill areas: listening/understanding, speaking, reading and writing. In the classical languages, we emphasize vocabulary building, reading / translating, and the great debt our civilization owes to those of Greece and Rome.

***All scholars, will be encouraged to take at least one year of a world language in order to meet the requirements of graduation and recommended to take two years of the same language to meet requirements of Mass Core.*** Mass Core is a state recommended, rigorous program of study that aligns high school course work with college and workforce expectations. Scholars choosing to take a language as a freshmen will be placed in Level 1

according to their grade in ELA at the middle school level or take the language placement test to test into the appropriate level if they are a native speaker and/or have strong literacy backgrounds. ***Scholars have the option to take an Equivalency Exam. A passing score will receive a P (Pass) and documentation on their transcript (will not factor into GPA & Rank and no credit given but fulfills the language graduation requirement). The Equivalency Exam applies to students who have not yet taken a language, are native speakers and/or have strong literacy backgrounds and need to fulfill the graduation requirement.***

The prerequisites for the world language department are as follows: in order to move on at the Honors level scholars must maintain a C average AND have the recommendation of their language teacher. In order to move on at the College Prep level scholars must maintain a passing average in the Level 1 course. It should be noted that in order to study 3 or more years of a language it is expected that scholars demonstrate an Honors level proficiency by the end of their 2<sup>nd</sup> year of study. This will be determined by teacher recommendation and/or testing. Scholars intending on 3 or more years of study should create a plan with their level 1 teacher.

<b>AP LATIN</b>	<b>CRS H4496</b>	<b>GR 12</b>	<b>CR 1</b>	<b>Y</b>
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The Latin AP course conforms to fourth through sixth semester college Latin. The content is based primarily on Caesar's De Bello Gallico and Vergil's Aeneid. Scholars will translate portions of these writings from Latin to English and strengthen their knowledge of grammatical structures and vocabulary. The literary techniques of Latin writers and poetic meters, along with stylistic analysis, are an integral part of the course. In addition, Latin AP includes the study of the cultural, social and political context of the literature studied.

<b>AP SPANISH LANGUAGE &amp; COMPOSITION</b>	<b>CRS H4761</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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AP Spanish follows the prescribed curriculum for the Spanish Language Examination. The course is conducted in Spanish, and the scholar is expected to respond and converse on various topics in Spanish. Scholars who select AP Spanish must take the Examination in Spanish Language.

<b>CLASSICAL GREEK I HONORS</b>	<b>CRS H4497</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
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After an introductory study of forms and syntax, scholars will begin to read connected passages of Ancient Greek prose. The history and influence of Ancient Greece are explored in the context of mythology, which scholars read in Greek as well as in English translation. Scholars enrolled in this course will receive Honors credit. This course begins with a review of introductory course work through selected readings from Sophocles and Aeschylus. First year forms and syntax are reinforced through the reading of selected passages.

<b>CLASSICAL GREEK II HONORS</b>	<b>CRS H4500</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course begins with a review of introductory course work through selected readings from Sophocles and Aeschylus. First year forms and syntax are reinforced through the reading of selected passages.

<b>CLASSICAL GREEK III HONORS</b>	<b>CRS H4599</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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The study of Homer begins in the third year through a detailed reading of the Iliad and the Odyssey. Additional forms and syntax are taught. The Greek mind and its effect on our way of thinking are studied through an original analytical academic essay based on themes from the Iliad.

<b>FRENCH I CP</b>	<b>CRS H4405</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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French I will teach enough basic vocabulary for scholars to enjoy taking part in everyday conversation. Scholars will learn how to talk to other people and tell them about themselves. Short, simple stories are read. Writing skills will be introduced, enabling the scholar to write paragraphs in French. Main aspects of French culture are introduced to allow scholars to acquire an appreciation of the customs, traditions and expressions of the French speaking world.

<b>FRENCH I HONORS</b>	<b>CRS H4406</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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French I will teach enough basic vocabulary for scholars to enjoy taking part in everyday conversation. Scholars will learn how to talk to other people and tell them about themselves. Short, simple stories are read. Writing skills will be

introduced, enabling the scholar to write paragraphs in French. Main aspects of French culture are introduced to allow scholars to acquire an appreciation of the customs, traditions and expressions of the French speaking world.

**FRENCH II CP                      CRS H4409                      GR 9 – 12                      CR 1                      Y**

French II is a continuation of French I. It aims to reinforce and strengthen the four basic skills of listening, speaking, reading and writing. Scholars will read and discuss topics in French culture and history. They will also continue to learn and actively use grammar concepts. Scholars will develop dialogues and skits as well as work on individual projects which they will present in French.

**FRENCH II HONORS                      CRS H4407                      GR 9 – 12                      CR 1                      Y**

French II is a continuation of French I. It aims to reinforce and strengthen the four basic skills of listening, speaking, reading and writing. Scholars will read and discuss topics in French culture and history. They will also continue to learn and actively use grammar concepts. Scholars will develop dialogues and skits as well as work on individual projects which they will present in French.

**FRENCH III HONORS                      CRS H4411                      GR 10 – 12                      CR 1                      Y**

Scholars will use their prior knowledge of French to read longer texts in French, as well as French classic literature with the simultaneous help of an English translation. They will deepen their knowledge of Francophone cultures, enabling them to draw parallels and comparisons with their own. Scholars will research French art and history, exploring themes that run through them. They will present research topics in French. Scholars need to be familiar with advanced grammar concepts and be able to use these in their own writing in order to be successful in French III.

**FRENCH IV HONORS                      CRS H4415                      GR 11 – 12                      CR 1                      Y**

Emphasis is placed on reading, comprehension, writing and communicating. Readings will include poetry, short stories, and contemporary essays. Scholars will also view important films of the French Cinemas and learn to discuss their themes, and write reviews and synopsis. Scholars will have to have extensive knowledge of French grammar and syntax to enter this class.

**ITALIAN I CP                      CRS H4437                      GR 9 – 12                      CR 1                      Y**

In Italian 1CP, scholars learn to carry on simple conversations. As vocabulary is built, scholars also develop the ability to converse and write on a variety of subjects. Class activities such as films, tapes and songs help teach Italian culture. Scholars will learn the present tense of verbs. Scholars will be required to complete several mastery projects.

**ITALIAN I HONORS                      CRS H4435                      GR 9 – 12                      CR 1                      Y**

In Italian I, scholars learn how to carry on simple conversations. As vocabulary is built, they also develop the ability to converse and write on a variety of subjects. Class activities such as films, tapes and songs help teach Italian culture. Scholars will learn the present tense of verbs. Scholars will be required to complete several mastery projects.

**ITALIAN II CP                      CRS H4441                      GR 9 – 12                      CR 1                      Y**

The scholar will review the basic skills of speaking, writing and reading learned in the first year study of the language. As vocabulary increases, the scholar will discuss topics in greater detail, and will use acquired knowledge of grammar to write in both the present and past tenses. The scholars will be required to write an imaginary pen pal letter and also write an essay on their daily routine using reflexive verbs. Scholars will read “Un’Estate Tutta Diversa.” Customs and traditions of Italy will also be emphasized.

**ITALIAN II HONORS                      CRS H4439                      GR 9 – 12                      CR 1                      Y**

The scholar will review the basic skills of speaking, writing and reading, learned in the first year of the language. As vocabulary increases, the scholar will discuss topics in greater detail, and will use acquired knowledge of grammar to



write in both the present and past tenses. The scholars will be required to write an imaginary pen pal letter and write an essay on their daily routine using reflexive verbs. The scholars will read “Un’Estate Tutta Diversa.” The customs and traditions of Italy will also be emphasized.

**ITALIAN III HONORS                      CRS H4443                      GR 10 – 12                      CR 1                      Y**

The scholar will review first and second year grammar, and will be able to give prepared presentations as well as discuss topics in detail. Short stories and novels, including Pinocchio, from Italian authors of the past and present will also be read. The scholar will continue the study of the geographic regions of Italy. The scholar will present several oral presentations on “il mercato” (shopping at the market) and “la casa dei miei sogni” (my dream house).

**ITALIAN IV HONORS                      CRS H4445                      GR 11 – 12                      CR 1                      Y**

In Italian IV Honors, the course is conducted in Italian and the emphasis is on attaining fluency in Italian, both written and oral. Extensive readings from 19th and 20th century Italian literature are undertaken. Scholars will give oral presentations as well as participate in discussions on various topics, such as Italian politics and famous Italians. Vocabulary building is accomplished through conversational readings dealing with contemporary situations in the reader Uffa’

**LATIN I HONORS                      CRS H4483                      GR 9                      CR 1                      Y**

Through the study of Latin, scholars will learn how languages work. Scholars in Latin I will begin by reviewing English grammar and syntax as a basis for their study. Once scholars can read short sentences, the course will use a combination of grammar theory and comprehensible input to increase reading proficiency. By studying Latin, scholars will learn how to think in an orderly way, and how to expand English comprehension and vocabulary. They will be introduced to the mythology of ancient Rome.

**LATIN II HONORS                      CRS H4487                      GR 9 – 12                      CR 1                      Y**

Through the study of Latin, scholars will learn how languages work. Scholars in Latin I will begin by reviewing English grammar and In Latin II Honors, the scholar will continue the study of how Latin works. After a review of the concepts learned in the first year, the scholar will begin reading primary texts from authors including: Caesar, Cicero, Catullus, Ovid, and Vergil. Latin comprehension and vocabulary will be increased, and the scholar will learn more about the life and customs of the Roman people.

**LATIN III HONORS                      CRS H4491                      GR 10 – 12                      CR 1                      Y**

The Latin III Honors course is designed for scholars who have successfully completed their first two years of study. Scholars will begin with a rapid review of 1st and 2nd year grammar through Caesar’s *Gallic Wars* and the letters of Pliny the Younger. The second half of the year will focus on an introduction to the *Aeneid* of Vergil. The literary techniques of Latin writers and poetic meters, along with stylistic analyses, are an integral part of the course. In addition, Latin III Honors includes the study of the cultural, social and political context of the literature studied.

**LATIN III HONORS ACCELERATED                      CRS H4490                      GR 10 – 12                      CR 1                      Y**

The Latin III honors accelerated course is designed for scholars who have shown exemplary skills in their first two years of study. The course is a prerequisite for scholars who wish to take AP Latin: Vergil the following year or Latin IV Honors. Scholars will begin with a rapid review of 1st and 2nd year grammar through Caesar’s *Gallic Wars* and The Letters of Pliny the Younger. The second half of the year will focus on an introduction to the *Aeneid* of Vergil. The literary techniques of Latin writers and poetic meters, along with stylistic analysis, are an integral part of the course. In addition, Latin III HA includes the study of the cultural, social and political context of the literature studied.

<b>LATIN IV HONORS</b>	<b>CRS H4493</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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A rapid review of all aspects of Latin grammar is followed by readings from Vergil and other authors. Literary techniques and poetic meters, along with stylistic analysis, are an integral part of the course. In addition, Latin IV Honors includes the study of the cultural, social and political context of the literature studied.

<b>PORTUGUESE I CP</b>	<b>CRS H4763</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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In Portuguese I, the scholar will study the basic structure and grammar of the Portuguese language, and will acquire skills necessary for practical, everyday conversation. Simple and enjoyable reading material will be introduced. Emphasis will also be placed on the culture of Latin American countries where Portuguese is spoken.

<b>PORTUGUESE I HONORS</b>	<b>CRS H4764</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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In Portuguese I, the scholar will study the basic structure and grammar of the Portuguese language, and will acquire skills necessary for practical, everyday conversation. Simple and enjoyable reading material will be introduced. Emphasis will also be placed on the culture of Latin American countries where Portuguese is spoken. At the honors level, scholars are responsible for reviewing vocabulary on their own outside of class and can expect a faster class pace with more independent practice.

<b>PORTUGUESE II CP</b>	<b>CRS 4765</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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In Portuguese II, scholars will enhance those skills acquired in Portuguese I. Audio-lingual skills are expanded, vocabulary is increased, more complex grammar structures are mastered, and oral fluency is developed through the use of the language in the classroom. Writing skills will be further developed through periodic compositions. Scholars will gain an understanding of the thoughts, beliefs, traditions and values of the people of the Portuguese community.

<b>SPANISH I CP</b>	<b>CRS H4463</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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In Spanish I, the scholar will study the basic structure and grammar of the Spanish language, and will acquire skills necessary for practical, everyday conversation. Simple and enjoyable reading material will be introduced. Emphasis will also be placed on the culture of Latin American countries where Spanish is spoken.

<b>SPANISH I HONORS</b>	<b>CRS H4461</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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In Spanish I, the scholar will study the basic structure and grammar of the Spanish language, and will acquire skills necessary for practical, everyday conversation. Simple and enjoyable reading material will be introduced. Emphasis will also be placed on the culture of Latin American countries where Spanish is spoken. At the honors level, scholars are responsible for reviewing vocabulary on their own outside of class and can expect a faster class pace with more independent practice.

<b>SPANISH II CP</b>	<b>CRS H4467</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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In Spanish II, scholars will enhance those skills acquired in Spanish I. Audio-lingual skills are expanded, vocabulary is increased, more complex grammar structures are mastered, and oral fluency is developed through the use of the language in the classroom. Writing skills will be further developed through periodic compositions. Scholars will gain an understanding of the thoughts, beliefs, traditions and values of the people of the Hispanic world.

<b>SPANISH III HONORS</b>	<b>CRS H4469</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
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Honors Spanish III offers the scholar 80% immersion in the Spanish language. Grammar from the first and second years will be reviewed, and more complex structures will be learned. The emphasis is on fluency and on the development of vocabulary through the reading of short stories and articles. The writing of compositions is expanded. Cultural projects in the target language are an integral part of the course. In the Honors level, the scholar must present oral projects.

**SPANISH IV HONORS****CRS H4473****GR 11 – 12****CR 1****Y**

Spanish IV Honors continues the development of audio-lingual skills, the expansion of oral and written self-expression, and the reading and appreciation of literature. The course is conducted exclusively in Spanish. The goal for Spanish IV Honors is for scholars to spontaneously create written and oral language with varying degrees of complexity.

# FINE ARTS

## VISUAL ARTS

**ADVANCED CERAMICS HONORS****CRS H9826****GR 10 – 12****CR ½****S**

Students in Advanced Ceramics will expand upon hand building and wheel throwing techniques from Ceramics 1 & 2. Students will be using hand-building and throwing techniques, and/or a combination of these methods to produce more advanced and personalized works in clay. Students will expand further on their ability to create ceramic works as both functional pieces and as aesthetic sculptural forms. The material learned in the Ceramics I & II should be applied to all works in regards to the elements and principles of design and introductory ceramics skills. This advanced course offers a combination of assigned and self directed, thematic projects where each student makes critical choices regarding subject matter, intention, and execution. Building off of skills gained in Ceramics I and Ceramics II, students develop a more sophisticated approach to methods and techniques that are used to create forms with clay. Students will focus on process and exploration of a broad range of contemporary clay works, functional, industrial and sculptural. Advanced Ceramics also offers the unique opportunity to study the science and chemistry behind glazing and firing. Students are expected to produce a sophisticated body of work that exhibits craftsmanship, clarity, focus, and commitment. Students will work in a mixed-level grouping and engage in critiques, class discussions, and exhibit work regularly. **Prerequisite: B 85% in Ceramics & Sculpture I & II and teacher recommendation**

**ADVANCED FASHION CONSTRUCTION HONORS****CRS H9828****GR 10 - 12****CR ½****S**

The content of this course builds on the skills acquired in Introduction to Fashion Construction. Greater depth in the study of design principles and sewing techniques is provided. In this course, scholars interested in a career within the fashion industry can explore the complete field of clothing and textiles. The emphasis will be on more advanced clothing construction techniques. The most up-to-date sewing techniques will be stressed to achieve a professional looking garment. **Scholars may take this class more than once upon approval. . School to Career requirement option.**

**ADVANCED JEWELRY MAKING HONORS****CRS H5512****GR 10-12****CR 1/2****S**

Advanced Jewelry concentrates on more difficult processes involved in jewelry making. Bezel stone setting, fusing, die forming and many more techniques are explored in the construction of these pieces. Prerequisite: Passing grade in Jewelry Making. School to Career requirement option.

**ADVANCED PHOTOGRAPHY HONORS****CRS H9803****GR 11 – 12****CR ½****S**

Scholars in Photography II advance their camera and printing skills by using 35mm and medium-format film cameras, printing in the darkroom on fiber-based silver gelatin paper, learning to dodge and burn prints to improve tonality, and using Adobe Photoshop for image manipulation. We also tackle more challenging shooting prompts, simulate professional photography assignments, and create a portfolio of matted prints. **Prerequisite: Passing grade in Foundations in Art & Photo I.**

**ADVANCED STUDIO DRAWING HONORS****CRS H5548****GR 10 – 12****CR ½****S**

This class is for scholars who are familiar with the basic skills and techniques of drawing and wish to learn how to refine these skills to create more polished and professional fine art. You will work step-by-step through the entire process of art creation. Begin by improving your ability to really see what you are looking at as an artist; right-brain visual perception. From here, you will learn how to transfer these images to your work surface by combining all of the

basic drawing skills with the proper drawing process. As an advanced art student, you will be pushed to see beyond the images themselves, and as a personal expression. ***Prerequisite: Passing grade in Studio Drawing.***

**ADVANCED STUDIO PAINTING HONORS                      CRS H9804                      GR 10 – 12                      CR ½                      S**

This advanced painting course is an opportunity for scholars to utilize all the knowledge and experience acquired in their previous art courses. It will further develop and refine painting techniques and concepts, as well as understanding of figure painting. Linear perspective, compositional structure, figure/ground integration, spatial perception, critical thinking, and analytical skills will all be emphasized extensively. ***Prerequisite: Passing grade in Studio Painting.***

**AP ART HISTORY    CRS H5526    GR 11 – 12    CR 1    Y**

This course is equivalent to a two-semester introductory college or university Art History survey course. The rigor of this course is consistent with colleges and universities and will prepare students for the Advanced Placement exam. Upon successful completion of the exam, students may receive college credit and will be well-prepared for advanced art history coursework. This course also builds the visual literacy and critical thinking skills needed to effectively analyze art across time and place. The framework of the AP Art History course encourages students to develop a deep understanding of representative artworks from diverse cultures, including the fundamental knowledge that places these works in context and articulates the relationships among them. Students will acquire a comprehensive knowledge of historically significant artists, movements, aesthetic theories, and practices, ranging from prehistoric times to significant contributions in the 21st Century. Art production of all cultures will be studied in relative proportion to their representation on the Advanced Placement Art History Exam.

**AP STUDIO ART    CRS H5599    GR 11 – 12    CR 1    Y**

This course is designed for scholars who have a serious interest in art and wish to attend art school or study art in college or university. Scholar workload is reflective of this college level/advanced placement course. Students will be required to submit a portfolio (exam) to the College Board and AP credit is awarded based upon their portfolio/exam score. A sketchbook will be used for outside assignments as well as self-directed investigation. ***Prerequisite: Passing grade in Basic Foundations in Art, two studio classes, Portfolio with 5 images and recommendation of teacher.***

**BOOKMAKING HONORS    CRS H9702    GR 10 – 12    CR ½    S**

Scholars in Bookmaking I will learn to make several types of books, using book linen, marbled paper, and paper made by hand from plants and recycled materials. We will make books with soft and hard covers, sewn and glued pages and cases and dust jackets. After constructing the books, we will fill them with drawings, paintings, collages, photos, 3D objects and writing. ***Prerequisite: Passing grade in Foundations in Art.***

**CERAMICS & SCULPTURE I HONORS                      CRS H5546    GR 10 – 12    CR ½    S**

Scholars will be introduced to the use of clay as an art medium. Basic construction techniques such as hand building, wheel throwing, and slab construction will be practiced. Scholars will also learn finishing techniques for decorating and glazing their work. The course will conclude with a sculptural project using alternative materials such as plaster, wire, wood and paper. ***Prerequisite: Passing grade in Foundations of Art***

**CERAMICS & SCULPTURE II HONORS                      CRS H5547    GR 10 – 12    CR ½    S**

Ceramics II is open to all scholars who have successfully completed Ceramics I. Scholars will be given a variety of assignments meant to sharpen their skills and explore further this three-dimensional art form. Scholars will build upon the basic skills of forming, refining, sculpting and finishing their pottery. Advanced wheel throwing, and glazing techniques will be introduced. A journal/sketchbook, which is used for preliminary sketches, planning and reflection will be required of all Ceramics II scholars. ***Prerequisite: Passing grade in Ceramics & Sculpture I***

## **DRAWING FOR UNDERSTANDING IN FIELD SCIENCE HONORS**

**CRS H9827**

**GR 10 - 12**

**CR ½**

**S**

Direct observation and construction of knowledge lies at the heart of what both scientists and artists do. This interdisciplinary drawing class requires students to build and demonstrate scientific knowledge via STEAM. Knowledge about the natural world through observational drawing and field research will be covered in the course of study. Blending the elements of art, principles of art and the process of scientific investigation, students communicate their scientific knowledge to others through visually powerful images. Field trips and talks by visiting artists/scientists will supplement throughout the course of study. Students will build knowledge together through observation, drawing, discovery, discussion, and design.

## **BASIC FOUNDATIONS IN ART HONORS CRS H5540**

**GR 9 – 12**

**CR ½**

**S**

Foundations in Art is open to all scholars. The course includes experiences in the use of both two and three-dimensional materials and concentrates on elements of Art and principles of design as they relate to painting, drawing, printmaking, ceramics, sculpture and other media. Scholars are expected to do outside projects as assigned by the instructor.

## **INTRODUCTION TO FASHION CONSTRUCTION HONORS**

**CRS H6679**

**GR 10 - 12**

**CR ½**

**S**

In this course scholars will use the sewing machine to create garments influenced by today's fashion styles and trends. Emphasis will be on general construction techniques in the assembling of clothing products. Scholars will learn basic sewing skills including the correct use of the sewing machine, commercial sewing patterns, fabric selection, proper construction procedures and the use of specialty tools and equipment. ***School to Career requirement option***

## **JEWELRY MAKING HONORS**

**CRS H9824**

**GR 10-12**

**CR1/2**

**S**

Jewelry Making concentrates on the manipulation of materials to create pieces of jewelry and 3 dimensional metal sculpture - both functional and formal. Basic metal fabrication and manipulation techniques will be employed, including cold connections, beaded wire chain, jump ring chain, and usage of a jeweler's saw. Solderless wire jewelry and a variety of non-metal construction procedures will be explored. Observe and make connections with the work of artwork of all mediums from art history and the contemporary art world. Discover jewelry as a fine art form. ***Prerequisite: Passing grade in Foundations of Art.***

## **PHOTOGRAPHY I HONORS**

**CRS H9801**

**GR 9 – 12**

**CR ½**

**S**

Scholars in Photography I will begin by taking digital photos and editing them in Adobe Lightroom, then build toward shooting with a 35mm film camera and making prints in the darkroom. We will also study photo history, make experimental prints and collages, and finish with a handmade album of prints. ***Prerequisite: Passing grade in Foundations in Art***

## **PHOTOGRAPHY II HONORS**

**CRS H9802**

**GR 10 – 12**

**CR ½**

**S**

Scholars in Photography II advance their camera and printing skills by using 35mm and medium-format film cameras, printing in the darkroom on fiber-based silver gelatin paper, learning to dodge and burn prints to improve tonality, and using Adobe Photoshop for image manipulation. We also tackle more challenging shooting prompts, simulate professional photography assignments, and create a portfolio of matted prints. ***Prerequisite: Passing grade in Foundations in Art & Photo I.***

## **PRINTMAKING HONORS**

**CRS H5542**

**GR 9 – 12**

**CR ½**

**S**

In this introductory course, scholars will explore the art of printmaking and the production of a series of identical images. Various techniques such as wood block, relief, mono-print, and silkscreen will be explored. Specific design problems will enable the scholar to develop a vehicle for self-expression while learning new methods. ***Prerequisite: Passing grade in Foundations of Art.***

<b>SCULPTURE &amp; 3D DESIGN HONORS</b>	<b>CRS H5543</b>	<b>GR 10-12</b>	<b>CR ½</b>	<b>S</b>
Explore 3-D design through the Elements of Art: Shape, Form and Space and the Principles of Design: Balance, Rhythm, Movement, and Proportion. Use additive and subtractive processes to work with a variety of sculptural media: plaster, clay, wire, wood, stone, paper mache, and found objects. Learn construction methods, armature, and techniques for creating a 3 Dimensional work of art. Observe the work of sculptors throughout history, and discover sculpture as a unique form of public and personal art. <i><b>Prerequisite: Passing grade in Foundations of Art.</b></i>				
<b>STUDIO DRAWING HONORS</b>	<b>CRS H5544</b>	<b>GR 9 – 12</b>	<b>CR ½</b>	<b>S</b>
Scholars will be taught to draw accurately, expressively and creatively. Materials such as pencil, pen and ink, charcoal, markers, pastel and conte crayon will be explored. Scholars will demonstrate proficiency in a variety of drawing approaches including contour, gesture, and modeling value. <i><b>Prerequisite: Passing grade in Foundations of Art.</b></i>				
<b>STUDIO PAINTING HONORS</b>	<b>CRS H5545</b>	<b>GR 9 – 12</b>	<b>CR ½</b>	<b>S</b>
Scholars will be taught to paint from observation. Each scholar will demonstrate technical proficiency in a variety of media, including acrylic, watercolor and mixed media. Scholars will learn all technical aspects of painting including how to mix and prepare paint, choose brushes and stretch canvases. <i><b>Prerequisite: Passing grade Foundations of Art.</b></i>				
<b>MUSIC AND PERFORMING ARTS</b>				
<b>A CAPPELLA HONORS</b>	<b>CRS H5560</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
The HillieHarmonies A Cappella ensemble provides scholars a rewarding experience in learning and performing a cappella vocal ensemble literature of a demanding nature. Required after-school rehearsals are held periodically and all members are required to participate in all public and community outreach performances. During the first semester, scholars will learn seasonal a cappella ensemble repertoire focusing on the annual Winter Concert. Specific components of instruction throughout the year include tempi and phrasing vocabulary, note names in the treble and bass clefs, beginner/intermediate melodic dictation, rhythmic reading in various common meters, as well as ensemble skills consisting of diction, blending, balance, dynamics, and proper microphone technique. A Cappella is a full-year vocal performance class and may be elected four times for credit. <i><b>Previous singing and performance experience is highly recommended.</b></i>				
<b>ACTING I HONORS</b>	<b>CRS H9816</b>	<b>GR 10 – 12</b>	<b>CR ½</b>	<b>S</b>
Scholars will learn the foundational skills required to act and perform in front of an audience. This course will include improvisational acting skills, script analysis, vocal techniques, and collaboration as an ensemble. Scholars will perform a finished piece. No prior experience is required. Opportunities for studying guest artists and speakers will be presented (live or video).				
<b>ACTING II HONORS</b>	<b>CRS H9819</b>	<b>GR 10 – 12</b>	<b>CR ½</b>	<b>S</b>
Scholars who have taken Acting I are eligible for this course. They will study a variety of acting techniques (Stanislavsky, Meisner, Adler, Hagen, etc.), and will perform for their peers and outside audiences. Scholars will learn how to analyze a script from an actor's perspective for beats, objectives, and playable tactics. Scholars will perform a finished piece. Opportunities for studying guest artists and speakers will be presented (live or video), as well as visits with professional theatre artists in the Greater Boston Area. <i><b>Prerequisites: A passing grade in Foundations of Theater and Acting I.</b></i>				
<b>ADVANCED FILMMAKING HONORS</b>	<b>CRS H9808</b>	<b>GR 10 – 12</b>	<b>CR ½</b>	<b>S</b>
Scholars who passed Introduction to Filmmaking will be able to use this course to deepen their technical knowledge of the filmmaking craft while engaging in more complex storytelling. They will learn how to use a				

variety of digital equipment by gaining a fundamental understanding of how those tools work. They will begin to explore specific roles within the filmmaking process by working in crews. Areas of focus include advanced lighting, sound, and editing. ***Prerequisite: Passing grade in Introduction to Filmmaking.***

**AP MUSIC THEORY HONORS                      CRS H5566                      GR 11 – 12                      CR 1                      Y**

AP Music Theory will further scholars' understanding of musical concepts. Scholars will: analyze performed and notated music, sing melodies from a written score (sight sing). Learn to recognize, understand, and describe the basic materials and processes of music. Skills will be strengthened by reading, writing, and performing a wide variety of music. Identifying features of pitch, interval, scales and keys, chords, meter, rhythm, and other musical concepts in performed and notated music. ***Prerequisite: Passing grade in 2 years of Chorus or Band.***

**BAND HONORS                                      CRS H9811                                      GR 9 – 12                                      CR 1                                      Y**

The band program is open to all scholars who have previously studied a musical instrument. The program consists of two performing units: Marching and Concert Band. It is expected that scholars electing band will participate in both performing groups. The band program requires after-school rehearsal time and full participation at football games, parades, and other civic and school events. All band scholars are encouraged to study privately when possible. Emphasis will be placed on individual skill development to foster musical independence and leadership. The band performs classical, jazz, rock, pop and holiday music, as well as scores from Broadway shows. Band may be elected four times for credit.

**BEGINNING BAND                                      CRS H5561                                      GR 9                                      CR ½                                      S**

This course will be for scholars who do NOT already play a concert band instrument and would like to start at the high school level. It is also available to scholars who play an instrument but would like to explore a different band instrument. Scholars will learn from a method/lesson book in a mixed ensemble setting to build skills and have performance opportunities throughout the school year. Scholars who advance quickly in their studies will be invited to perform with the Jazz Band or Marching Band.

**FILMMAKING CAPSTONE HONORS                      CRS H5536                                      GR 10 – 12                                      CR ½                                      S**

Film Studies is an intensive and self-guided class. Scholars will focus their practice on the crew roles and aspects of filmmaking that interest them most. Scholars will strive to tell stories that are increasingly personal and thoroughly realized. By the end of the course, scholars will have a strong portfolio of work that can be shared with potential employers, colleges, and film festivals. ***Prerequisite: Passing grade in Advanced Filmmaking***

**FOUNDATIONS OF THEATER HONORS                      CRS H9805                                      GR 9 – 12                                      CR ½                                      S**

In this survey course, scholars will learn about the history of theatre, from Ancient Greece to contemporary theatre and overview the process of bringing a script to the stage. Scholars will read and analyze a variety of theatrical works, and will take on roles as theatrical artists in the production process and perform. No prior experience required. ***Foundations of Theater is a required course for all theater electives.***

**GUITAR WORKSHOP HONORS                                      CRS H9812                                      GR 9 – 12                                      CR ½                                      S**

In Guitar Workshop, players from beginning to advanced will develop guitar skills in a variety of styles and techniques. Scholars will use those skills in various ensemble and solo performance situations. Topics covered include tuning, proper technique, identifying notes on the fingerboard, guitar notation methods including standard staff notation, chord diagrams and tablature, chord and scale vocabulary, soloing, accompanying and much more! Scholars are encouraged to bring their own electric or acoustic guitar but some instruments are available. Guitar Workshop may be elected four times for credit. ***Prerequisite: Passing grade in Music Exploration or Band.***

**HISTORY OF ROCK AND ROLL HONORS      CRS H9813      GR 10 – 12      CR ½      S**

This course focuses on the social development of Rock & Roll in America. Scholars will study the chronological history of rock while listening to and viewing Rock & Roll recordings and films. Class assignments are organized around lectures, small group discussions, and in-class activities. The course begins with an overview of ancestors and influences: rhythm and blues, jazz, country & western, moving into the social trends of the 1960s, including the influence of The Beatles and the British Invasion, the Acid Rock explosion and social upheaval of the late 1960s, and the changes in Rock & Roll music during the seventies, eighties, and nineties.

**IMPROVISATION HONORS      CRS H9817      GR 9 – 12      CR ½      S**

This course will delve deeply into the art of improvisation as well as other acting techniques. Scholars will begin with simple improvisation exercises that develop imaginary object use, free association and spontaneity skills, free form improvisation, movement improvisation, and structured improvisation. In addition, scholars will also work within structured scenes and explore different acting methodologies. The ensemble approach is strongly emphasized and the structure will force scholars to invest in each other's success. Thematic work around performance genres, stereotyping character, metaphor and abstraction will be ongoing. Scholars will create, perform and screen a finished piece at end of year arts festival. ***Prerequisite: Passing grade in Foundations of Theater.***

**INTRODUCTION TO DIGITAL MEDIA HONORS      CRS H9823      GR 9-12      CR ½      S**

With this course, students will learn the basic language of film and video in order to effectively communicate ideas and emotions visually. These skills will be applicable not only to traditional filmmaking, but also music videos, broadcasting, vlogging and web content. Students will analyze a wide range of existing media in addition to creating their own videos. The course will also cover key concepts in visual storytelling, pacing, and the aesthetic choices that impact the final edit. Through hands-on projects and guided practice, students will develop a foundational understanding of the tools and techniques used in the digital editing process, preparing them for more advanced work in video production and post-production. **Introduction to Filmmaking is a prerequisite course for any upper level Film class.**

**INTRODUCTION TO FILMMAKING HONORS      CRSH9825      GR 9 – 12      CR ½      S**

With this course, students will learn the basic language of film and video in order to effectively communicate ideas and emotions visually. These skills will be applicable not only to traditional filmmaking but also music videos, broadcasting, vlogging, and web content. Students will analyze a wide range of existing media in addition to creating their own videos. **Introduction to Filmmaking is a Prerequisite course for any upper level Film classes.**

**INTRODUCTION TO MUSIC SOFTWARE HONORS      CRS H9815      GR 10 – 12      CR ½      S**

In this course, scholars will learn the basics of various music software programs including GarageBand and Audacity. They will utilize these programs to create numerous musical arrangements of both pre-recorded audio loops and MIDI recordings. Scholars will be expected to complete projects that range from a musical collage of pre-recorded music to their own version of a popular folk song. Scholars will also complete a final project, which will test the skills they acquired during the course. Prior musical knowledge is helpful, but not required. Passing grade in Music Exploration, Band or Mixed Chorus. ***School to Career requirement option.***

**JAZZ BAND HONORS      CRS H5565      GR 9 – 12      CR 1      Y**

Jazz Band is open to all band scholars through audition. Only the most proficient musicians are allowed in the Jazz Band and it is an honor to be invited to participate. The Jazz Band repertoire will include music in various jazz styles including blues, swing, Latin and jazz/rock "fusion" styles emphasizing improvisation techniques and advanced technical skills. It is expected that scholars electing jazz band will participate in marching band which requires some after-school rehearsal time and full participation at football games, parades, and other civic and school events. ***School to Career requirement option.***



<b>MIXED CHORUS</b>	<b>CRS H98910</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
Mixed Chorus is a Soprano, Alto, Baritone (SAB) ensemble, which gives the scholar an opportunity to learn the fundamentals of participating in a vocal ensemble. This course emphasizes basic vocal technique, ear training and music reading skills. Required after school rehearsals are held periodically and all chorus scholars are expected to participate in all public and community outreach performances.				
<b>MOVEMENT FOR THEATER HONORS</b>	<b>CRS H5531</b>	<b>GR 10 – 12</b>	<b>CR ½</b>	<b>S</b>
Movement for Theater is a course designed to familiarize scholars with various theatrical dance styles. A history of Broadway theater movement will be studied and scholars will experience the execution and design of choreography. No prior experience is required. Skills will be taught from warm-ups to mini-combinations. Opportunities for studying guest artists will be presented, (live or video clip) Scholars will perform a finished piece. <b>Prerequisites: A passing grade in Foundations of Theater and Acting I.</b>				
<b>MUSIC EXPLORATION HONORS</b>	<b>CRS H9818</b>	<b>GR 9 – 12</b>	<b>CR ½</b>	<b>S</b>
This is an introductory survey course for those scholars who aren't quite sure where their musical interests lie and who would like to explore a variety of options. The course features short exploratory units on: keyboard, guitar, music software, (GarageBand) singing, and rhythmic composition using a variety of percussion instruments. By taking this course, scholars will be exposed to a wide variety of options for expressing themselves musically, and will develop a basic understanding of musical notation and theory.				
<b>PIANO WORKSHOP HONORS</b>	<b>CRS H9814</b>	<b>GR 9 – 12</b>	<b>CR ½</b>	<b>S</b>
In Piano Workshop, scholars will develop piano skills in a variety of styles and techniques. Scholars will use those skills in various ensemble, solo and accompaniment performance situations. Topics include Proper technique, notes on the keyboard, grand staff notation including treble and bass clefs, basic music notation & symbols, chord and scale vocabulary, improvisation and much more! Keyboard Lab may be elected eight times for credit.				
<b>PRE-AP THEATRE HONORS</b>	<b>CRS H5533</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
In this course, scholars are invited to explore a single play as a source text, examining it through the lenses of three different theatre artists: the director, the dramaturg, and the designer. Throughout the module, scholars will hone skills of collaboration and communication to propose new interpretations and presentations of the play. This course introduces scholars to a range of theatre structures, including methods of structuring a narrative as well as methods for presenting that story to an audience. In this course of study, scholars consider that works of theatre can be presentational or representational as well as realistic or conceptual. They examine climactic and episodic story structures before beginning an in-depth exploration of story-theatre structure, which will culminate in the development of their own work of story theatre, based on a myth. <b>Prerequisite: Passing grade in Acting II.</b>				
<b>THEATRICAL DESIGN HONORS</b>	<b>CRS H9821</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
Theatrical Design will explore the process of creating a show from inception to actualization: including set design & construction, lighting design, and sound. Scholars will learn how to read and analyze a play for specific design elements. Scholars will collaborate with other classes to implement design. Scholars will collaborate with actors from other classes and/or after school productions. No prior theatre knowledge is needed to register for this course. Scholars will be introduced to professional resources in the theatrical field. <b>Prerequisites: A passing grade in Foundations of Theater or Acting I. (Available to Grade 9 scholars in their second semester) School to Career requirement option.</b>				
<b>VOICE IN ACTING HONORS</b>	<b>CRS H5593</b>	<b>GR 10 – 12</b>	<b>CR ½</b>	<b>S</b>
This class is an exploration of the scholar's voice. The main focus of the class is the learning of voice work as a preparation for performance (musical, theatrical, or class presentation) – a series of exercises designed to liberate the speaking voice from habitual psychophysical tension and develop vocal range, stamina, clarity, power				

and sensitivity to impulse. Work will include discovery of sound in the body, awareness and opening of the channel (jaw, tongue, and soft palate), exploration of resonance, vocal freedom and range, isolating and strengthening resonating chambers and articulation exercises. Group and individual exercises designed to stimulate and develop the imagination, physical and sensory awareness, creativity and capacity for ensemble work will be practiced as a basis for vocal presence. Text work will include a monologue from a published play, poetry or a published musical theatre solo. Scholars will perform a finished piece. **Prerequisites: A passing grade in Foundations of Theater and Acting I.**

**WORLD DRUM ENSEMBLE HONORS      CRS H5549      GR 9 – 12      CR ½      S**

World Drum Ensemble is the exploration of percussion instruments and traditions from a variety of cultures from around the world. This is a course where scholars use hands-on participation to communicate through percussion instruments, perform in “drum circles,” create their own non-traditional instruments and provide accompaniment for other performance arts. A majority of activities will focus on the African Djembe drum and its various applications, but the course will also cover hand percussion, barred instruments such as the xylophone and marimba, concert percussion, and drum set. No drumming experience is necessary to take the course, only a willingness to experience new things.

## BUSINESS

### ACCOUNTING AND BUSINESS ELECTIVES

**ACCOUNTING HONORS      CRS H6631      GR 11 – 12      CR 1      Y**

This APBP (Accounting Program for Building the Profession) uses an integrated approach to teach real-world accounting. Scholars will first learn how businesses plan for and evaluate their operating, financing, and investing decisions and then how accounting systems gather and provide data to internal and external decision makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Microsoft Excel is taught and integrated into the curriculum throughout the year. Optional: For a fee, scholars will have the opportunity to take a qualifying exam and an online course to earn 6 fully transferable credits to any college. This course may count as a 4<sup>th</sup> year credit in mathematics.

**Prerequisites: Grade of B- or better in Algebra II and recommendation of mathematics or business teacher. School to Career requirement option.**

**ACCOUNTING I      CRS H6619      GR 9 – 12      CR ½      S**

Scholars will use the multi-journal approach to complete the accounting cycle for proprietorship. The activities will include: analyzing and journalizing business transactions, posting journal entries to a general ledger, and preparing and analyzing financial statements. Scholars will also learn how to write checks and reconcile bank statements. **School to Career requirement option.**

**AP MICROECONOMICS      CRS H6627      GR 11 – 12      CR 1      Y**

This course will focus on an in-depth understanding of microeconomics. Scholars will study the concepts in opportunity cost, trade-offs, production possibility curve, and other analytical examples. The course will analyze how different types of economies determine which goods and services to produce, how to produce them and to whom to distribute them. Other basic concepts that are explored include the functions performed by an economic system and the way the tools of supply and demand can be used to analyze a market economy. Scholars who select Economics AP must take the AP test in Microeconomics. **Prerequisite: A passing grade in Introduction to Economics. School to Career requirement option.**

**BUSINESS MARKETING**      **CRS H6613**      **GR 9 – 12**      **CR ½**      **S**  
 career opportunities within the field is achieved through careful examination of product and service planning, distribution, financing, risk management, selling, promotion, pricing, purchasing and market information management. This class is designed to provide scholars with the opportunity to actually operate a retail store. They will become involved with all aspects of the operation which include: customer service, management, purchasing, inventory control, sales, cash handling, advertising, and merchandising. It is suggested freshmen interested in business/finance/DECA take this course. ***School to Career requirement option.***

**ENTREPRENEURSHIP**      **CRS H6615**      **GR 10 – 12**      **CR ½**      **S**  
 This course teaches scholars to expand their knowledge of business marketing principles related to ownership and management of a business, traits and characteristics of successful entrepreneurs, and strategies of business management and marketing. Using the NFTE (Network for teaching Entrepreneurship) curriculum, this course teaches the entrepreneurial mindset alongside traditional business development skills. Scholars create original business models, either individually or with a partner, and pitch in a series of competitive events. This course is aligned to the *Common Career Technical Core Standards for Business Management and Administration* and *The National Content Standards for Entrepreneurial Education*. ***School to Career requirement option.***

**FUNDAMENTALS OF VOCATIONAL SKILLS: CULINARY**      **CRS H8665S**      **GR 9 – 12**      **CR ½**      **S**  
 Scholars are taught the basic skills necessary in the food service industry to be hired in entry level positions. The course will allow students to explore several areas of the culinary profession including food preparation, front end operations and customer service. Focus will also be placed on safety and sanitation.

**FUNDAMENTALS OF VOCATIONAL SKILLS: RETAIL**      **CRS H8665S**      **GR 9 – 12**      **CR ½**      **S**  
 This course will introduce or strengthen students' knowledge of workplace readiness skills in retail. With the use of hands-on training in our school store, the students will learn the basics of a retail operation from start to finish. Through a variety of tasks within the school store, scholars receive instruction and are graded on creativity, work ethic, workplace appearance, attendance, punctuality, listening, speaking with others and interacting with co-workers and customers. They are taught transferable skills, such as how to accept direction and criticism, and are expected to motivate themselves and take initiative with their tasks.

**INTRODUCTION TO BUSINESS**      **CRS H6603**      **GR 9 – 10**      **CR ½**      **S**  
 This course is offered to freshmen and sophomores who are interested in exploring a concentration in business. This course includes an overview of the following topics: Marketing, Economics, Accounting, Employment Skills, Sales, Entrepreneurship, and Personal Finance. ***School to Career requirement option.***

**INTRODUCTION TO ECONOMICS**      **CRS H6625**      **GR 9 – 12**      **CR ½**      **S**  
 This course will introduce scholars to the principles of economics, beginning with some of the broad issues and concepts that make up the field of economics. Beginning with some basic definitions, the course builds to introduce economic systems and the concept of scarcity and wants, and how these impact economies. ***School to Career requirement option.***

**MONEY MATTERS**      **CRS H6628**      **GR 11 – 12**      **CR ½**      **S**  
 financial difficulties. Scholars will learn how to have a positive relationship with money and cover such topics as being financially responsible, researching and buying a car, why credit matters, protecting your identity, making a budget, staying out of debt, finding the right career, selecting a bank and more. Scholars will also play financial simulation games where they will be in charge of their finances and spending and will also attend a Credit for Life Fair. ***School to Career requirement option.***

## CULINARY ELECTIVES

### ADVANCED CULINARY ARTS      CRS H6674      GR 10 – 12      CR ½      S

Scholars will learn about food management, marketing, sanitation, food costs, and comprehensive methods of food preparation. In addition, scholars will learn what is involved behind the scenes of the food industry while preparing dishes to be offered as specials in the school's coffee café. Scholars will also study hospitality and how it relates to food services. Some scholars may qualify for a separate internship with a local food preparation establishment.

**Scholars may take this class more than once upon approval. *Prerequisite: A passing grade in Culinary Arts. School to Career requirement option.***

### BAKE SHOP      CRS H6675      GR 9 – 12      CR ½      S

This course will introduce scholars to the production of baked goods. Scholars will learn to make effective use of resources when preparing and producing baked goods, keeping a kitchen organized, and purchasing and storing ingredients. They will also develop the fundamental skills needed to work safely and efficiently in the kitchen, read and follow recipes, and serve baked goods attractively. Scholars will be actively engaged in learning how to select, store, and prepare a wide variety of breads, pastries and other bakery products. ***Prerequisite: A passing grade in Introduction to Foods and Nutrition. School to Career requirement option.***

### CULINARY ARTS      CRS H6673      GR 10 – 12      CR ½      S

Scholars in this course will develop competencies to produce meal and dessert specials to be offered in the school's coffee café. Scholars will explore career issues, food preparation, sanitation, nutrition, and attractive presentations of a variety of meal options. Other topics include customer service; cost control, management and safety issues. This course may be repeated for credit with permission of the teachers. Scholars will be educated in the National Restaurant Association's Servsafe Food Handler program and upon successful completion will receive an industry certification. ***Prerequisite: Introduction to Foods and Nutrition; any grade of D or below will require approval by the instructor. School to Career requirement option.***

### INTRODUCTION TO FOOD AND NUTRITION      CRS H6671      GR 9 – 12      CR ½      S

This course will introduce scholars to the role of food in their life, and the effects their daily food choices have on their health. They will discover that what they read or hear about food and nutrition is not always true. Scholars will learn to make effective use of resources when organizing a kitchen, caring for equipment and appliances, and purchasing and storing food. Scholars will also develop fundamental skills that are needed to work safely and efficiently in a kitchen or food lab, plan meals, follow recipes and serve them attractively. ***Prerequisite for all consumer science courses. School to Career requirement option.***

### MULTICULTURAL FOODS      CRS H6677      GR 10 – 12      CR ½      S

This course features the study of foods and customs of many countries. Scholars will learn how food customs have been influenced by the geography and culture of each country. In this course, scholars will compare the food traditions of various cultures and regions with respect to food choices and life styles, nutrition, how food is prepared, and ways of service and eating food. ***Prerequisite: A passing grade in Introduction to Foods and Nutrition. School to Career requirement option.***

## PROGRAMS

### CLASSICAL ACADEMY

[Link to Website](#)

The Classical Academy is a program within Haverhill High School that engages academically promising scholars in a challenging college preparatory curriculum intended to broaden and deepen their knowledge, skills, understandings,

and civic commitment. A classical education promotes intellectual curiosity and critical thinking as its core values. Therefore, scholars are encouraged to find what academic pursuits interest them the most and pursue these with vigor. The Classical Academy creates scholars who are well-rounded, cultured, self-disciplined, critical thinkers who can thrive at the highest academic levels.

Scholars apply and are accepted into the program based on teacher recommendations, their middle school transcripts and an interview. Many scholars, who would have attended private schools, have chosen Haverhill High for the sole purpose of participating in this program.

Scholars have a prescribed four-year curriculum that is rigorous but also allows scholars the flexibility to pursue their unique interests. All core courses are honors or Advanced Placement levels. Scholars are required to take a minimum of four (4) Advanced Placement (AP) courses: AP European History, AP US History, one AP English, one elective AP. Classical Academy scholars must take and pass at least three years of Latin. There are courses offered which are unique to the program

In their freshman year, scholars take a course called *A Classical Perspective*, which focuses on classical themes within literature and studio art. This interdisciplinary, project-based course incorporates and connects curricula from the Humanities, World Languages and Fine Arts. In addition to their core subjects, History, English, Mathematics, Science and Latin and their Classical Perspective courses, scholars take Wellness and a World Language.

In their sophomore year, scholars are required to take AP European History, English, Mathematics, Science and Wellness. In addition, they will take either: a) 2nd World Language (Honors Level) b) Another AP course (with teacher recommendation) or c) 1 credit worth of Fine Arts electives and/or electives from another academy in which the scholar is enrolled.

In their junior year, scholars take AP U.S. History and AP English. Scholars may elect one and a half courses and are encouraged to take a second language including modern languages (French, Spanish, Italian) or Ancient Greek. They may also take an additional mathematics or science or advanced placement course. Juniors and seniors are encouraged to do a community service project of their choosing.

In their Senior year, scholars take senior seminar and produce an eighty hour project about a topic of their choice, culminating in a presentation before a panel of expert judges. All other courses are elective. Scholars are encouraged to take advanced placement or honors level courses.

Throughout the duration of their enrollment in the Classical Academy scholars are required to maintain no less than a "C" average in any subject; failure to do so in two or more, results in a probationary status. After the committee reviews scholars' quarterly grades, anyone who fails to meet this standard at the time of final grades can be excluded from the program.

The goal is to offer these scholars a challenging unique opportunity with enhanced extracurricular activities within a public high school. Our teachers are encouraged to bring in guest speakers and lecturers and arrange field trips, which are tied to the curriculum. In the past, scholars have had lectures by a juvenile district court judge, a Buddhist monk and a performance by a professional storyteller/poet. Scholars have visited the Museum of Fine Arts, the John F. Kennedy Library, where they witnessed a political forum, and attended performances of *To Kill a Mockingbird* and *Julius Caesar*, just to mention a few.

Our objective is to offer scholars a rigorous program and to provide them with a foundational experience, for successful college studies. We create critical thinkers, problem-solvers and creative young adults who will meet the challenges in all their future endeavors and to become a responsible citizen.

After an introduction to Hellenistic culture and its influences on the development of western art and thought, scholars will enter into a detailed study of *Oresteia* by Aeschylus. The *Oresteia*, a cycle of three tragic plays (*Agamemnon*, *Libation Bearers* and *Eumenides*), explores the human cost of the Trojan War in Argos after the Greeks return. Scholars will read the plays and reflect on what it means to be human and engage in human relationships. It is the intent of this reflection to begin to answer the underlying questions of the human experience: What do we know? How do we know what we know? How do we express this knowledge? This course will serve to inform the perspective of Classical Academy scholars as they progress through the program. ***This course is a graduation requirement for the Classical Academy. This course along with Classical Capstone Seminar fulfills the school's public speaking requirement.***

#### **A CLASSICAL PERSPECTIVE – STUDIO**

**CRS H9601**

**GR 9 CR ½ S**

This companion class to a Classical Perspective - Literature will continue to answer the underlying questions of the human experience: What do we know? How do we know what we know? How do we express this knowledge? This studio class will allow a hands-on, project-based approach for scholars to continue to explore and express their findings. Scholars will create original works in the disciplines of fine and performing arts. ***(Classical Academy only)***

#### **CLASSICAL CAPSTONE SEMINAR**

**CRS H1145**

**GR 11 - 12 CR ½ S**

Scholars will conduct original research about a topic of their choice in order to produce an original artifact that illustrates their depth of knowledge. They will then present their findings before their peers and a panel of judges. The course requires scholars to demonstrate autonomy in the production of original work, express themselves creatively, solve problems independently, engage in sustainable inquiry, develop time-management skills, report orally and in writing on the results of research and create a tangible product. ***This course is a graduation requirement for the Classical Academy.***

## **CAREER TECHNICAL EDUCATION (CTE)**

[Link to Website](#)

*Career Technical Education (CTE) and Career Vocational Technical Education (CVTE) programs are a sequence of rigorous technical courses aligned with industry standards. Scholars travel together as a cohort. College and career planning activities and work-based learning opportunities are embedded into all programs.*

The Department of Elementary and Secondary Education (DESE) defines Career and Technical Education as follows. The term 'career and technical education' means organized educational activities that— (A) offer a sequence of courses that— "(i) provides individuals with coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions; "(ii) provides technical skill proficiency, an industry-recognized credential, a certificate, or an associate degree and (B) include competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of All Aspects of an Industry, including entrepreneurship.

Haverhill High School is able to offer a wider variety of technical courses and electives to round out a scholar's education. Additionally, Haverhill High School offers rigorous Advanced Placement courses and concurrent enrollment opportunities for those scholars interested in attending highly competitive universities and colleges. Alternatively, scholars will be positioned to complete post-secondary certificate programs or immediately enter the high-demand STEM workforce.

***All CTE programs require an application and interview but do not require an entrance exam. Both incoming freshmen and current Haverhill High School freshmen are eligible to apply.***

**<https://cte.haverhill-ps.org/>**

#### **Healthcare Occupations (CTE)**

Healthcare workers make a positive impact on patient's lives by providing clinical support to a healthcare team in medical offices and clinics. They provide direct patient care, collect and prepare

lab specimens, perform basic tests and update medical records. Scholars may be eligible for professional certifications such as CNA or EMT.

#### Programming & Web Development (CVTE)

In this approved vocational program, scholars learn and build skills in topics such as fundamentals of information technology, elements of software development, programming concepts in modern industry programming languages, and modern web development. Additionally, scholars explore careers in the field of technology, and gain skills in employability and career readiness

#### Information Technology (CVTE)

In this approved vocational program, scholars will gain a variety of skills across a broad spectrum of hardware and software solutions that drive technological innovation in modern society. Through hands-on real-world projects students will learn: basic robotics engineering concepts; object-oriented programming; how to assemble a computer and install operating systems; PC hardware and software maintenance; how to build 3D printers and design prototypes; network architecture; cyber security and database management.

#### Project Lead the Way Biomedical Science (CTE)

In this program students use professional lab equipment, expert guidance from teachers and their own curiosity to explore aspects of the human body, solve medical mysteries, and prepare for college and careers in biotechnology, lab sciences, and medicine.

#### Project Lead the Way Engineering/Manufacturing (CTE)

Students in the PLTW Engineering/Manufacturing Program use the Engineering Design Process to solve real-world problems through an exploration of mechanical engineering, electrical engineering and manufacturing concepts, as well as prepare for college and careers in multiple fields of engineering and manufacturing.

## CTE HEALTHCARE OCCUPATIONS PROGRAM REQUIRED COURSES

[Link to Website](#)

### **CTE FUNDAMENTALS OF HEALTHCARE OCCUPATIONS I**

#### **HONORS (FALL SEMESTER)**

**CRS H9692CTE**

**GR 9**

**CR ½**

**S**

The Fundamentals of Healthcare Occupations I course will provide scholars with opportunities to develop a strong foundation in the fundamentals of healthcare through rigorous coursework and practical skills experience using state-of-the-art equipment and evidence-based practices. This course challenges scholars through exploration of healthcare careers and workplace settings, communicating and interacting with diverse populations, infection control and safety protocols.

### **CTE FUNDAMENTALS OF HEALTHCARE OCCUPATIONS I**

#### **HONORS (SPRING SEMESTER)**

**CRS H9693CTE**

**GR 9**

**CR ½**

**S2**

This is a continuation of the semester one course and introduces students to medical terminology, measuring and recording vital signs, observing and responding to patient needs, introduction to anatomy and physiology through the study of major body systems in relation to patient care. Scholars will have the opportunity to earn certification in First Aid for First Responders.



**OCCUPATIONS II HONORS**

The Professionalism in Healthcare Occupations II course will build on content from CTE Healthcare Occupations I Honors and provide scholars with more in-depth rigorous coursework and practical skills experience using state of the art equipment, hands-on patient care techniques, and enhanced real world case scenarios. Scholars will focus on developing professionalism, understanding legal and ethical obligations as well as scope of practice parameters for healthcare providers. Patient care emphasis is on safe patient handling, activities of daily living, patient rights and respecting diversity. Workplace safety and security is reinforced as scholars work to earn their OSHA certification for General Industry (healthcare concentration). Scholars expand their emergency response preparedness and are eligible to earn Healthcare Provider level BLS certification through the American Heart Association. Scholars also earn their certificate in the Dean Vaughn program of Medical Terminology. This year also includes state mandated dementia training and certification. ***Prerequisite: Passing Grade in CTE Healthcare Occupations I Honors.***

**CTE NURSE AIDE TRAINING COURSE (DPH APPROVED)****HEALTHCARE OCCUPATIONS III HONORS (Double Period) CRS H9624 GR 11 CR 2 Y**

The Nurse Aide Training Healthcare Occupations III course is a Department of Public Health approved Certified Nursing Assistant program with the goal of qualifying to take the Massachusetts Prometrics CNA examination. There is an increased focus on direct patient care through simulations in our medical learning lab as well as required clinical hours. Course topics emphasize care of residents in long-term care settings, geriatrics, disabled persons, activities of daily living such as bathing, grooming, dressing and feeding, diagnostic testing including bladder scanning, EKG and electronic health documentation. Dementia training and certification completed in grade 10. ***Prerequisites: Passing Grade in CTE Healthcare Occupations I Honors & II.***

**CTE HEALTHCARE OCCUPATIONS  
CAPSTONE HONORS**

CRS H9627

GR 12

CR ½

S

The purpose of this capstone project is to demonstrate a scholar's mastery and knowledge of what they have learned during their studies in health assisting and apply them to real world situations. Working with a mentor, scholars will develop a proposal for a capstone project, integrating concepts and skills learned throughout their four years in the CTE Healthcare Occupations Program. Each project must include a deliverable such as a process, procedure, prototype or community-based project. At the end of the semester, scholars showcase and present their projects at a Capstone Expo. ***Prerequisites: Passing Grade in Healthcare Occupations I, II and III***

**CTE HEALTHCARE OCCUPATIONS IV HONORS**

CRS H9625

GR 12

CR ½

S

The Healthcare Occupations IV course is a summation of the prior healthcare courses that continues to build on existing and acquired knowledge of the patient care continuum with a focus on direct patient care through simulations in our medical learning lab. Advanced units of study are based on student interest and demand. These topics include but are not limited to pediatrics, mental health, principles of lab testing, safe medication handling, and EKG. During senior year, scholars in CTE Healthcare Occupations IV must also complete Healthcare Capstone CRS H9627. ***Prerequisites: Passing Grade in Healthcare Occupations I, II and III***

**CVTE INFORMATION TECHNOLOGY PROGRAM REQUIRED COURSES**

[Link to Website](#)

**CVTE INFORMATION TECHNOLOGY:****PRINCIPLES OF IT HONORS**

CRS H9653

GR 9

CR 1

Y

This is the first course scholars take in the CVTE Information Technology and Programming and Web Development Programs. It provides an overview of information technology and introduces scholars to the basics of hardware and software. Scholars examine hardware components including peripherals, connectors, and



memory. Scholars explore aspects of computer software, learning and using common operating systems, software applications, and programming languages. Scholars will learn the basics of programming by programming robots, developing websites and with the use of Python. Scholars learn about types of networks and network topology, and they set up an email client/server connection. Scholars also consider contemporary issues such as security, privacy, and technological inequality. Scholars will strengthen their public speaking skills by presenting projects to community leaders. Finally, scholars explore career opportunities in IT.

**CVTE INFORMATION TECHNOLOGY:**

**INTRODUCTION TO PROGRAMMING HONORS                      CRS H9652                      GR 10                      CR ½                      S**

Introduction to Programming uses Python as a basis for learning general programming skills. Scholars learn programming principles by comparing Python to other programming languages. They use models as a way to quickly solve new problems using knowledge and techniques already learned. In addition to programming, scholars learn program design, documentation, formal debugging, and testing. Scholars will strengthen their public speaking skills by presenting projects to community leaders. Finally, scholars examine career opportunities in programming. ***Prerequisites: Passing Grade in Principles of IT.***

**CVTE INFORMATION TECHNOLOGY:**

**ENTREPRENEURSHIP HONORS                                      CRS H9678                      GR 10                      CR ½                      S**

This course teaches scholars to expand their knowledge of business marketing principles related to ownership and management of a business, traits and characteristics of successful entrepreneurs, and strategies of business management and marketing. Using the NFTE (Network for teaching Entrepreneurship) curriculum, this course teaches the entrepreneurial mindset alongside traditional business development skills. Scholars create original business models, either individually or with a partner, and pitch in a series of competitive events. This course is aligned to the Common Career Technical Core Standards for Business Management and Administration and The National Content Standards for Entrepreneurial Education.

**CVTE INFORMATION TECHNOLOGY:**

**CISCO IT ESSENTIALS HONORS                      CRS H9675                      GR 10                      CR 1                      Y**

The IT Essentials course covers the fundamentals of computer hardware and software and advanced concepts such as security, networking, and the responsibilities of an IT professional. Scholars who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. IT Essentials helps scholars prepare for entry-level Information & Communications Technology career opportunities and the CompTIA A+ certification, which helps scholars to differentiate themselves in the marketplace and advance their careers. ***Prerequisites: Passing Grade in Principles of IT and Intro to Programming.***

**CVTE INFORMATION TECHNOLOGY:**

**CISCO INTRODUCTION TO NETWORKS HONORS                      CRS H9676                      GR 11                      CR 1                      Y**

Introduction to Networks introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, scholars will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. ***Prerequisites: Passing Grade in Principles of IT, Intro to Programming and IT Essentials/Computer Systems. Prerequisites: Passing Grade in Principles of IT, IT Essentials.***

**CVTE INFORMATION TECHNOLOGY:**

**3D PRINTING HONORS                                      CRS H9654                      GR 11                      CR ½                      S2**

This class will introduce the concept of 3D modeling, prototyping, replication/construction and design. In addition to building a 3D printer from a kit, scholars will be producing 3D printed projects by designing printable 3D

models using TinkerCad, a cloud based 3D modeling software. **Prerequisites: This course is a requirement for the IT Program. Elective or Art graduation requirement option.**

**CVTE INFORMATION TECHNOLOGY:**

**ADVANCED NETWORKING & SECURITY HONORS                      CRS H9677                      GR 12                      CR ½                      S**

This course will cover the following topics Network Security, Compliance and Operational Security, Threats and Vulnerabilities, Application, Data and Host Security, Access Control and Identity Management and Cryptography. Scholars will practice the next level of network design and implementation with a focus on the security concerns in industry today. **Prerequisites: Passing Grade in Principles of IT, Intro to Programming and IT Essentials, 3D Printing, Database Design**

**CVTE INFORMATION TECHNOLOGY:**

**CAPSTONE PROJECT HONORS                      CRS H9668                      GR 12                      CR ½                      S**

The purpose of this capstone project is to demonstrate a scholar's mastery and knowledge of what they have learned during their studies in information technology and apply them to real world applications. Working with a mentor, scholars will develop a proposal for a capstone project, integrating concepts and skills learned throughout their four years in the **IT Program**. Each project must include a deliverable, such as a process, procedure, software or prototype. Scholars will be required to develop a comprehensive business model and marketing plan. At the end of the semester, scholars showcase and pitch their projects to a panel of judges at a Capstone Design Expo. **Prerequisite: Passing Grade in Principles of IT,-Intro to Programming and Computer Systems, 3D Printing, Introduction to Networks.**

**CVTE INFORMATION TECHNOLOGY:**

**DATABASE DESIGN HONORS                      CRS H9667                      GR 12                      CR ½                      S**

Database Design is an introductory course in Databases using SQL Server. The course covers databases and their uses. Tables, indexes and foreign keys. You will learn simple SQL (Structured Query Language) DDL (Data Definition Language) and SQL DML (Data Manipulation Language). You will learn why Relational Databases are "Relational". **Prerequisite: Passing Grade in Principles of IT,-Intro to Programming and-Computer Systems, 3D Printing, Introduction to Networks.**

**CVTE COMPUTER SCIENCE AND WEB DEVELOPMENT PROGRAM REQUIRED COURSES**

[Link to Website](#)

**CVTE INFORMATION TECHNOLOGY:**

**PRINCIPLES OF IT HONORS                      CRS H9653                      GR 9                      CR 1                      Y**

This is the first course scholars take in the CVTE Information Technology and Programming and Web Development Programs. It provides an overview of information technology and introduces scholars to the basics of hardware and software. Scholars examine hardware components including peripherals, connectors, and memory. Scholars explore aspects of computer software, learning and using common operating systems, software applications, and programming languages. Scholars will learn the basics of programming by programming robots, developing websites and with the use of Python. Scholars learn about types of networks and network topology, and they set up an email client/server connection. Scholars also consider contemporary issues such as security, privacy, and technological inequality. Scholars will strengthen their public speaking skills by presenting projects to community leaders. Finally, scholars explore career opportunities in IT.

**CVTE INFORMATION TECHNOLOGY:**

**INTRODUCTION TO PROGRAMMING HONORS    CRS H9652                      GR 10                      CR ½                      S1**

Introduction to Programming uses Python as a basis for learning general programming skills. Scholars learn programming principles by comparing Python to other programming languages. They use models as a way to quickly solve new problems using knowledge and techniques already learned. In addition to programming, scholars learn program design, documentation, formal debugging, and testing. Finally, scholars examine career opportunities in programming. *Prerequisites: Passing Grade in Principles of IT*

**CVTE COMPUTER SCIENCE AND WEB DEVELOPMENT GRADE 10:**

**PYTHON PROGRAMMING HONORS (CVTE PROG & WEB SCHOLARS ONLY)**

**CRS H9695CTE                      GR 10                      CR ½                      S2**

This intermediate programming course continues the learning and practicing of developing Python code from Introduction to Programming. Previous programming topics are reinforced through code practices, assignments, and projects while new concepts are introduced. New topics include: User Defined Functions, Lists (Arrays), 2D Arrays, and Dictionaries. *Prerequisites: Passing Grade in-Principles of IT.*

**CVTE COMPUTER SCIENCE AND WEB DEVELOPMENT:**

**ENTREPRENEURSHIP HONORS                      CRS H9697CTE**

**GR 10                      CR ½                      S**

This course teaches scholars to expand their knowledge of business marketing principles related to ownership and management of a business, traits and characteristics of successful entrepreneurs, and strategies of business management and marketing. Using the NFTE (Network for teaching Entrepreneurship) curriculum, this course teaches the entrepreneurial mindset alongside traditional business development skills. Scholars create original business models, either individually or with a partner, and pitch in a series of competitive events. This course is aligned to the Common Career Technical Core Standards for Business Management and Administration and The National Content Standards for Entrepreneurial Education.

**CVTE COMPUTER SCIENCE AND WEB DEVELOPMENT GRADE 11:**

**FUNDAMENTALS OF WEB DEVELOPMENT HONOR**

**CRS H9696CTE                      GR 11                      CR1                      Y**

This class is an introduction to the design, creation, and maintenance of web pages and websites. Scholars learn how to critically evaluate website quality, learn how to create and maintain modern web pages, learn about web design standards and why they are important, and learn to create and manipulate images. The course progresses from introductory work on web design to a culminating project in which scholars design and program their own websites. Scholars will learn HTML5, CSS3 and JavaScript programming. Scholars will also learn about current industry trends in web development. Topics will include current web implementation methods, technologies, version control, and tool sets,

*Prerequisites: Passing Grade in Principles of IT, CVTE Programming and Web Development Gr 10.*

**CVTE COMPUTER SCIENCE AND WEB DEVELOPMENT:**

**CAPSTONE PROJECT HONORS**

**CRS H9694CTE                      GR 12                      CR ½                      S**

The purpose of this capstone project is to demonstrate a scholar’s mastery and knowledge of what they have learned during their studies in information technology and apply them to real world applications. Working with a mentor, scholars will develop a proposal for a capstone project, integrating concepts and skills learned throughout their four years in Programming and Web Development. Each project must include a deliverable, such as a process, procedure, software or prototype. Scholars will be required to develop a comprehensive business model and marketing plan. At the end of the semester, scholars showcase and pitch their projects to a panel of judges at a Capstone Design Expo. *This course is a requirement for Programming and Web Development Fall Grade 12. School to Career requirement option.*

## CVTE COMPUTER SCIENCE AND WEB DEVELOPMENT: SOFTWARE DEVELOPMENT & DATABASES HONORS

CRS H9698CTE

GR 12

CR 1

Y

This course introduces scholars to the fundamental principles of software engineering. Modern software development techniques and life cycles are emphasized. Scholars will learn how to identify a problem, plan, design, build, test, deploy, and maintain software by developing several projects throughout the course. Scholars will learn about both client and server-side techniques, incorporating Python and MySQL databases in order to develop and maintain web pages. **Prerequisites: PASSING**

**GRADE IN Principles of IT, CVTE Programming and Web Development Gr 10, CVTE Programming and Web Development Gr 11.** Students in the Computer Science and Web Development program are required to take either: AP Computer Science A or AP Computer Science Principles to complete program requirements

## CTE PLTW BIOMEDICAL SCIENCE PROGRAM REQUIRED COURSES

[Link to Website](#)

### CTE PLTW PRINCIPLES OF BIOMEDICAL SCIENCE HONORS

CRS H3432

GR 9

CR 1

Y

Principles of Biomedical Science is the first course in the Project Lead the Way Biomedical Pathway. Scholars in the course combine the studies of biology and medicine to investigate medical cases while working with the same equipment used by lab technicians and healthcare workers. The course includes inquiry based learning units that incorporate physiology, microbiology, research practices, public health, and biology. Scholars will often be working in collaborative groups which foster critical thinking and communication skills. **Prerequisites: scholars must be in the PLTW pathway and concurrently enrolled in Biology**

### CTE PLTW HUMAN BODY SYSTEMS HONORS

CRS H3435

GR 10

CR 1

Y

Human Body Systems is the second course in the Project Lead the Way Biomedical Pathway. Scholars in this course examine the interactions of the body systems focusing on identity, power, protection, movement and homeostasis. This course includes solving real world medical cases and learning about various medical professions. **Prerequisites: scholars must be in the PLTW pathway.**

### CTE PLTW MEDICAL INTERVENTIONS HONORS

CRS 3439

GR 11

CR 1

Y

Medical Interventions is the third course in the Project Lead the Way Biomedical Pathway. Through real-world cases, scholars are exposed to a range of techniques related to immunology, surgery, genetics, pharmacology, biotechniques, medical devices, and diagnostics. Each case scenario will introduce multiple types of interventions and will reinforce concepts learned in the previous two courses, as well as present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role scientific thinking and engineering design play in the development of interventions of the future. **Prerequisites: scholars must be in the PLTW pathway.**

### CTE PLTW BIOMEDICAL INNOVATION (CAPSTONE) HONORS

CRS H9691CTE

GR 11 – 12

CR 1

Y

Biomedical Innovation is the fourth course in the Project Lead the Way Biomedical Pathway. Students use their knowledge gained from the three previous PLTW Biomedical classes to design innovative solutions to a variety of health challenges, facing people in the 21<sup>st</sup> century. Students may investigate topics such as: biomedical engineering, public health, clinical medicine and physiology. During the course they will complete their capstone project. They will have a mentor/advisor such as an HHS science teachers or a professional from industry such as a medical facility or research institutions. **Prerequisites: scholars must be in the PLTW pathway.**

# CTE PLTW ENGINEERING/MANUFACTURING PROGRAM REQUIRED COURSES

[Link to Website](#)

## CTE PLTW INTRODUCTION TO ENGINEERING DESIGN HONORS                      CRS H9658      GR 9      CR 1      Y

The major focus of the IED course is to expose scholars to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Scholars will use 3D solid modeling design software to help them design solutions to solve proposed problems. Scholars will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. Students will also learn how to document their work, and communicate their solutions to their peers and members of the professional community. ***Prerequisites: scholars must be enrolled in the PLTW Engineering pathway and concurrently enrolled in Biology.***

## CTE PLTW DIGITAL ELECTRONICS HONORS                      CRS H9659CTE      GR10      CR 1      Y

This course covers fundamentals of analog and digital electronics. Scholars learn about the different number systems used in the design of digital circuitry. They design circuits to solve open-ended problems, assemble their solutions and trouble-shoot them as necessary. Scholars then use combined logic, integrated circuits and microprocessors to solve open-ended problems. ***Prerequisites: scholars must be enrolled in the PLTW Engineering pathway or have passed PLTW POE.***

## CTE PLTW PRINCIPLES OF ENGINEERING HONORS                      CRS H9657                      GR 11      CR 1      Y

This course is based on the Project Lead the Way program. It provides a hands-on introduction to engineering and the engineering design process. Through assignments and projects, scholars learn how to: identify a problem, develop alternative solutions, select the best alternative, make critical decisions, and work as a team. Scholars will focus on mechanical, electrical engineering, and civil engineering. Scholars will also be introduced to CAD and basic programming. ***Prerequisites: scholars must be enrolled in the PLTW Engineering pathway or have passed PLTW IED.***

## CTE PLTW COMPUTER INTEGRATED MANUFACTURING HONORS                      CRS H9785CTE      GR 12      CR 1      Y

This course provides students the opportunity to explore manufacturing processes, product design, robotics, and automation. Students will continue to develop their CAD skills, design, build, and program factory system models, and will produce products on a CNC machine. Students will solve real-world problems relating to manufacturing. This is the final course in the Engineering pathway. ***Prerequisites: scholars must be enrolled in the PLTW Engineering pathway or have passed PLTW POE.***

# INTERNSHIP PROGRAM

[Link to Website](#)

## INTERNSHIP CP                      CRS H6694                      GR 10 – 12                      CR ½                      S

The purpose of the Career Internship is to provide scholars with a meaningful workplace experience working closely with a professional in a chosen field. The scholars will also participate in classes where they will build a career portfolio, including resumes, cover letters, and ultimately, letters of recommendation. The scholars will also learn about interview and job search skills as well as labor laws and their rights in the workplace. This course runs two afternoons a week from 2:15-5 p.m. Scholars will receive ½ credit per semester for satisfactory completion of all requirements. Scholars must be at least 16 years old to participate. ***School to Career requirement option.***

## INTERNSHIP HONORS                      CRS H6694CTE                      GR 10 – 12                      CR ½                      S

The purpose of the Career Internship is to provide scholars with a meaningful workplace experience working closely with a professional in a chosen field. The scholars will also participate in classes where they will build a career

portfolio, including resumes, cover letters, and ultimately, letters of recommendation. The scholars will also learn about interview and job search skills as well as labor laws and their rights in the workplace. The Honors level Internship student will contribute significant work product at their worksite under minimal supervision and will strictly adhere to all timelines. This course runs two afternoons a week from 2:15-5 p.m. Scholars will receive ½ credit per semester for satisfactory completion of all requirements. Scholars must be at least 16 years old to participate. Internship Teacher and Internship Coordinator approval required to participate in Honors level Internship class.

**School to Career requirement option.**

## U.S. MARINE CORPS. JROTC

[Link to Website](#)

<b>USMC JROTC I</b>	<b>CRS H6696</b>	<b>GR 9 – 12</b>	<b>CR 1</b>	<b>Y</b>
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LE – I is designed to form good habits, self-discipline and sound study skills under the watchful supervision of senior cadets, the senior marine instructor (SMI) and marine instructor (MI). While strengthening character, the scholar will develop respect for, and an understanding of, the need for constituted authority in a democratic society. It is also designed to instill the value of citizenship, Service to the United States, personal responsibility, accountability, authority and a sense of accomplishment. Military organization from the lowest to highest echelons are studied and how they interact with various segments of government. Military terminology, rank structure, chain of command, military justice, uniform inspections, drill and ceremonies, and physical training are all used in developing citizen and leadership values. All scholars are required to wear a military uniform one time per week for an entire year. This is a graded event and the uniforms are provided by the USMC at no cost to the scholar. Freshmen through seniors are invited to sign up for this elective course. **School to Career requirement option.**

<b>USMC JROTC II</b>	<b>CRS H6697</b>	<b>GR 10 – 12</b>	<b>CR 1</b>	<b>Y</b>
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LE – II includes close order drill to include sword drill as well as marksmanship safety instruction, and marksmanship skill training with Crossman 177 pellet rifles. These pellet rifles are provided by the USMC along with all the necessary safety equipment, targets, traps, pellet ammunition and essential shooting equipment to conduct proper marksmanship training in our approved shooting range. USMC history from 1945 through the Vietnam war is studied in detail. Ethics and law of land warfare is also studied. Developing strong citizenship skills with an emphasis on leadership. The addition of public speaking, confidence building skills, advanced drill techniques and becoming a classroom leader are paramount to leadership development. **Prerequisite for this course is a passing grade in USMC JROTC I. School to Career requirement option.**

<b>USMC JROTC III</b>	<b>CRS H6698</b>	<b>GR 11 – 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is designed for those scholars interested in going into the military after graduation and those that may want to pursue a military scholarship to college or one of the military academies. Current events, constitutional law, military ethics, law enforcement and community service are some of the topics covered. History continues with the genesis of the Taliban to ISIS and some of the background behind its growing emergence. Military service is not required after completing this course, however, scholars that do complete this course may go into the military three pay grades higher than regular enlistees. College ROTC scholarships and acceptance to military academies is greatly enhanced by successful completion of this course. The scholar may find themselves providing leadership instruction to younger scholars through demonstration and one on one remedial training. **Prerequisite for this course is satisfactory completion of USMC JROTC II and recommendation by the Senior Marine Instructor. School to Career requirement option.**

<b>USMC JROTC IV</b>	<b>CRS H6699</b>	<b>GR 12</b>	<b>CR 1</b>	<b>Y</b>
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This course is the culmination of the previous three years of Leadership Education. The scholar finds themselves under the watchful eye of the Senior Marine Instructor and Marine Instructor, preparing lesson plans for younger cadets, teaching the class they prepared, developing test materials, grading and evaluating performance. Leadership



is enhanced by performing weekly inspections of younger cadets, training drill movements, lending physical training, and learning to tactfully correct younger cadets. Cadets will become role models and will be expected to set a positive example at all times both in the classroom and out, both in uniform and out of uniform. This role is much like that of a mentor and similar to the captain of a varsity sports team. Only the best and most sincere should endeavor to undertake this responsibility. ***Prerequisite for the course is satisfactory completion of USMC JROTC I, II and III. School to Career requirement option.***

## EARLY COLLEGE PROGRAM

[Link to Website](#)

Haverhill High School and Northern Essex Community College have partnered to provide enhanced dual enrollment offerings for students introducing them to the overall college experience, allowing them to attend classes on a college campus and work directly with college professors. The Early College Program is designed to allow HHS students the opportunity to earn college credits through Northern Essex Community College while completing all requirements for the Haverhill High School diploma. The courses offered will represent expanded subject areas to create seamless pathways of transfer credits through the Mass Transfer Block. Early College Students will have the opportunity to earn up to 30 college credits before graduation from Haverhill High.

The courses in the Early College Program pathways are free to Haverhill High School students and offer them the opportunity to enter college with a year or more of college coursework completed, saving both time and money towards earning a 4-year college degree. Those enrolled in the program will designate a pathway of Liberal Arts, Education, Business, Criminal Justice, STEM, or Healthcare. Students will be placed in courses that follow their elected pathway, are part of the Mass Transfer Block and support long term academic planning.

Courses offered through this program are college-level courses for scholars who are looking for increased academic challenges while earning both high school and college credit. Students are recruited for the program in one of two ways. Freshman and Sophomore year scholars are identified by their teachers and recommended for the First Year Seminar course offered sophomore year at Haverhill High School. The First Year Seminar course allows scholars to explore the Early College Program and introduces strategies for personal, academic and professional success. The content focuses on strengths and self-advocacy, critical thinking, goal setting and problem solving. The second way in which individuals are recruited is through a reading assessment through NECC. Established benchmark scores, which are set by NECC, are required to be met to be eligible for participation. All eligible individuals will meet with the Early College Team before acceptance into the program.

All Early College designated pathway courses will be held at the NECC Haverhill campus. Students leave for the college campus at 12pm and return by 2:05pm. This schedule allows for scholars to participate in both the college courses and Haverhill High School afternoon activities such as athletics, clubs, and other events. Transportation and materials are provided for this program.

## APENDIX A-B-C ETC.

### COMPUTER BASED LEARNING (CBL)

**Haverhill High School offers CBL options for:**

- Dropout Prevention
- Credit Recovery
- Alternative Instruction

- Advanced Placement

### **Complete Core Curricula Available**

Computer Based Learning contains the entire core high school curricula with courses to cover all four years of high school in the four main subject areas of Mathematics, English, Social Studies, and Science.

Computer Based Learning delivers a proven, rigorous core high school curriculum designed to help every scholar achieve objective-based mastery and prepare them for graduation and college. The powerful learning management system also gives you the control to prescribe curricula, customize lessons and tests, and monitor scholar activity and track performance.

## **SCHOOL COUNSELING PROGRAM**

### [Link to Website](#)

School Counselors provide a variety of scholar and community based services including, academic, career and post-secondary planning, and crisis intervention/resources. The School Counseling Office offers a comprehensive developmental guidance program consisting of individual and group sessions with scholars, as well as parent/guardian evening informational presentations. The administration, counselors, teachers, and scholars work together to promote the best interests of the school and the individual scholar.

Scholars are assigned a school counselor as freshmen and work individually with their counselor throughout their high school career. This system allows the counselor and scholar to develop the relationship necessary to work closely in developing both short and long-term goals. Together they develop an individualized four-year plan that helps the scholar actualize their potential and dreams.

The focus of the school counselor is to work with the scholars and their parents/guardians in matters pertaining to academic advising, post-secondary planning, and personal/social counseling. This could include adjustment to school, registering for courses, placement in classes, college and career exploration, testing, tutoring, and personal/emotional issues. School counselors have access to a wide variety of community and collegiate resources in order to provide the scholars with the best possible options for all their needs.

Scholars can make an appointment with their counselor by emailing their counselor, visiting the School Counseling Office in the L Wing before or after school, during lunch or during study halls. Parents are encouraged to call or email their child's counselor to make an appointment to discuss any areas of concern. Conferences may be arranged before or after school or at designated times during the school day.

### **SERVICES**

The counseling staff meets with scholars on an individual and group basis. Some featured group presentations for scholars and parents include:

- Freshman Orientation Program (scholars)
- PSAT Presentations (scholars and parents)
- Junior Class Presentations ~ includes career and college exploration (scholars and parents)
- Senior Class Presentations ~ college and post-secondary planning (scholars and parents)
- Course Selection and Registration Meetings (scholars)
- College Financing Seminars (scholars and parents)
- College and Career Fair (scholars and parents)
- College Search Workshops for Juniors (scholars)
- Scholarship Workshops for Seniors (scholars)
- College Application Workshops for Seniors (scholars)



- Summer College Bootcamp for Rising Seniors (scholars)
- Career Exploration Workshops for Sophomores (scholars)
- ASVAB Career Exploration Exam (scholars)

Counselors will maintain regular contact with faculty and staff to ensure progress of each scholar and will assist the scholar in selecting an educational program that is appropriate for his/her educational and vocational interests. Counselors will work with the scholar and their parent/guardian to make any necessary referrals for outside tutoring, remedial work, 504 and special education services.

### **COLLEGE & POST SECONDARY PLANNING**

The college search and application process involve long term planning. Beginning in their freshmen year with the creation of the 4-year plan counselors and scholars work collaboratively in selecting an appropriate post-secondary path. Counselors assist scholars in the following ways:

- Course selection
- Guided Naviance Family Connection activities (The Game Plan, Personality and Career Surveys)  
College search process
- College majors and related careers PSAT/SAT/SAT Subject/ACT testing
- College application Process
- Essay/Resume writing
- Letters of Recommendation
- College visits and interviews

### **Financial Aid/Scholarships**

The Counseling Department shares information and opportunities related to financial aid, FAFSA and internal and external opportunities. Scholars are encouraged to utilize the resources available in the school counseling office to assist them in this process. Families are provided with online resources and in person workshops to support students and families in this process.

### **NAVIANCE & FAMILY CONNECTIONS**

Family Connection from Naviance is a web-based service designed especially for scholars and parents. It is a comprehensive website that scholars and parents can use to help make decisions about colleges, careers, and post-secondary plans. Each scholar has a profile on Family Connection and is linked directly to the counseling office so that the counselors can monitor each scholar's progress in the college admissions process. It will specifically track and analyze data about college admissions and Haverhill High School scholars so it can provide up-to-date information that is specific to our school.

#### ***Family Connection allows scholars and families to:***

**Get involved in the planning and advising process** ○ Build a resume, complete on-line interest, personality and career inventories, and manage your timelines and deadlines for college admissions

**Research Colleges** ○ Compare your GPA, standardized test scores, and other statistics to actual historical data from Haverhill High School for scholars who have applied to your college of interest in the past.

**College Visits**-Keep track of which college admissions representatives are visiting Haverhill High School and register yourself right online for these visits.

**Recommendations**-Students may request recommendations through Naviance from their teachers. It is important that the student request in person first prior to sending a Naviance request. Students who are requesting an external individual would use Common App.

**Scholarship Information**-See what's available to HHS scholars for national, state and local scholarships in Naviance and in the HHS Scholarship Portal which is available between January-February each year.

**Stay in Touch**-Counselors can send regular emails and reminders to share information with the scholar and parent about upcoming meetings, events, deadlines, and scholarship information.

## **FINANCIAL AID AND SCHOLARSHIPS**

In view of the ever-increasing costs of college, families need to take advantage of all resources available to finance higher education for their children. The school counseling department partners with MEFA (Massachusetts Educational Financing Authority) to bring parents and scholars the most up to date information and assistance regarding financial aid for college. Parents are able to access this information from the school counseling website or by visiting the following:

- [www.mefa.org](http://www.mefa.org)
- [www.fafsa.ed.gov](http://www.fafsa.ed.gov)
- [www.collegeboard.org](http://www.collegeboard.org)

As a service to families, the school counseling department sponsors various Financial Aid Workshops each year with personnel from MEFA and other professional organizations to assist families in the process of securing financial aid and the preparation of the FAFSA (Free Application for Scholar Aid) and the CSS-Profile.

*Scholarships from other sources:* Throughout the year, the school counseling department receives notifications from local, state, and national organizations offering scholarships to our scholars. These scholarships are primarily from business, industrial, professional, and fraternal organizations. Criteria for these awards are usually based on academic achievement, community service, test scores, essays, and leadership qualities. These scholarships are publicized and updated weekly on Haverhill High School Naviance Family Connection and can be accessed by anyone in the Haverhill High School community. It is the responsibility of the scholar to regularly check Naviance Family Connection for updates and deadlines, and to pursue these opportunities. School counselors are ready to offer any assistance with this process in regards to information, recommendation letters, and transcripts.

In addition, it is important for families to inquire about scholarships offered by their own employers, fraternal and veteran organizations, and church groups.

*Local Scholarships for Haverhill High School scholars:* In addition to the scholarships on Naviance, numerous local scholarships are also available specifically for Haverhill scholars at the high school. These scholarships are published yearly on our Haverhill High School website with instructions for scholars as to how to pursue each scholarship. Selection for most of these scholarships is based on need and merit, and upon being awarded, will be announced at the various end of the year ceremonies held for the senior class. Please check the website regularly for updates on deadlines and funding.

## **STANDARDIZED TESTING**

The following is a summary of the testing programs made available to the scholars through the School Counseling office. Most of this testing is voluntary; however, scholars who plan to attend college after high school should take full advantage of all the testing opportunities available. These tests are usually a requirement for college admissions, so scholars must do their research to see what is required by each school or organization.

Information about testing will be available on the Haverhill High School School Counseling website and in the Counselor Connection Newsletter; however, it is the responsibility of the scholar to register for these exams, watch their deadlines, and to research which colleges require additional testing (such as the SAT Subject Test). The standardized tests recommended by the school counseling department are:

- **Preliminary Scholastic Aptitude Test and National Merit Scholarship Qualifying Test (PSAT/NMSQT)** ~ This 2 hr., 45 minute version of the SAT is valuable for practice. It is highly recommended that scholars take this test in October of their sophomore AND junior year. For juniors, the National Merit examination is utilized by scholarship program sponsors for applicants who may qualify for scholarship consideration in their senior year. A detailed individual report is provided to each participant highlighting their weaknesses and strengths, and also offers them information about how to begin their college admissions journey. This test is offered only once per year. Registration information is available in the school counseling office at the beginning of each school year.
- **Standardized Aptitude Test (SAT)** ~ The SAT is a globally recognized college admission test that shows colleges what you know and how well you can apply that knowledge. It tests your knowledge of reading, writing and math — subjects that are taught every day in high school classrooms. Most scholars take the SAT during their junior or senior year of high school, and almost all colleges and universities use the SAT to make admission decisions. Practice tests, tips, as well as registration information, are available at [www.collegeboard.org](http://www.collegeboard.org)
- **SAT Subject Test** ~ Subject Tests are hour-long, content-based tests that allow you to showcase achievement in specific subject areas where you excel. These are the only national admission tests where you choose the tests that best showcase your achievements and interests. SAT Subject Tests allow you to differentiate yourself in the college admission process or send a strong message regarding your readiness to study specific majors or programs in college. There are 20 SAT Subject Tests in five general subject areas: English, history, languages, mathematics and science. Some of the more competitive colleges REQUIRE 2-3 SAT Subject Tests; it is the responsibility of the scholar to see if it is necessary for the colleges they are applying to.
- **ACT** ~ The ACT is also a nationally accepted college entrance exam and is looked at interchangeably with the SAT and SAT Subject Tests. It assesses high school scholars' general education development and their ability to complete college-level work. The multiple choice test covers four skill areas: English, mathematics, reading, and science. The writing test, which is optional, measures skills in planning and writing a short essay. In order for the ACT to be considered in place of the SAT for college admissions, the scholar MUST take the optional writing section. Visit [www.actscholar.org](http://www.actscholar.org) for additional information, practice tests, and registration information.
- **Exams (AP)** ~ AP exams are offered in May to all scholars who have participated in an AP course throughout the school year, either at the high school or on VHS (Virtual High School). Through AP's college-level courses and exams, you can earn college credit and stand out in the admission process. There are currently 23 AP courses offered at Haverhill High School, with the opportunity to take any not offered at Haverhill High School online through Virtual High School. See your counselor for more information.

## **DUAL ENROLLMENT AND COLLEGE CREDIT**

Scholars have the option of taking courses at local colleges while enrolled at Haverhill High School. College courses may be used for Haverhill High School graduation requirements **with prior approval**. Scholars must review dual enrollment courses with their counselor and the Curriculum Supervisor for approval and authorization. Each 3-credit college course is equal to 1 credit at Haverhill High School. College courses are on a self-pay basis;

however, opportunities for dual enrollment may be available depending on state funding. Scholars should make arrangements through their counselor if interested in this option.

## **CONFERENCES WITH COLLEGE REPRESENTATIVES**

In the fall and spring of each school year, admissions representatives of schools and colleges visit the high school to meet with seniors and juniors who may be interested in receiving information about that program. It is to the scholar's advantage to attend these meetings, specifically for the schools that are their top choices. When representatives of schools or colleges visit the high school, notification will be made through daily notices and the Naviance program. Scholars may attend the college representative visits by obtaining passes in the school counseling office one day prior to the event. Students should notify their teachers ahead of time, communicate about missed work to attend these visits. Teachers will follow up within our internal system to check to ensure the student attended the visit.

## **NCAA - NATIONAL COLLEGIATE ATHLETIC ASSOCIATION**

Scholar-athletes must register with the NCAA Eligibility Center to be eligible to play NCAA Division I or II sports in college. Athletes playing in Division III do not have to register. Scholars should work closely with their coaches and school counselors to determine if they should complete this process.

### **What is the NCAA Eligibility Center?**

The NCAA Eligibility Center certifies whether prospective college athletes are eligible to play sports at NCAA Division I or II institutions. It does this by reviewing the scholar-athlete's academic record, SAT or ACT scores, and amateur status to ensure conformity with NCAA rules.

### **What are NCAA Divisions I, II, and III?**

The NCAA is the governing body of many intercollegiate sports. Each college regulated by the NCAA has established rules on eligibility, recruiting and financial aid, and falls into one of the three membership divisions (Divisions I, II and III). Divisions are based on college size and the scope of their athletic programs and scholarships.

### **When should scholars register?**

The NCAA recommends that scholar-athletes register at the beginning of their junior year in high school, but many scholars register after their junior year. There is no registration deadline, but scholars must be cleared by the Eligibility Center before they receive athletic scholarships or compete at a Division I or II institution.

### **How do scholars register?**

Scholars must register online at the NCAA Eligibility Center. The link for this site is accessible through the Haverhill High School School Counseling website and on Naviance Family Connection site. Scholars will have to enter personal information, answer questions about their course work and sports participation outside of high school and pay a registration fee.

### **Can scholars have the registration fee waived?**

Scholars who have received a waiver for the SAT or ACT are eligible for a waiver of the registration fee. The scholar's counselor must submit confirmation of the scholar's test fee waiver. Please see your counselor for more information.

# ATHLETICS INFORMATION

## [Link to Athletics](#)

Haverhill High School sponsors a broad-based athletics program, offering **35** sports programs and fielding 55 teams. All programs are also governed by rules of the Massachusetts Interscholastic Athletic Association (MIAA) and the Merrimack Valley Conference.

The materials outlined below define some of the policies and procedures for all student-athletes participating in our High School Athletic program. Student-athletes must meet all academic eligibility requirements as well as the rules and regulations set forth in both the MIAA Handbook and Haverhill Parent/Scholar-Athlete Guide.

Haverhill High School sponsors a Unified Basketball team and a Unified Track and Field team. These teams are supported by the MIAA and by the Special Olympics and bring together student-athletes with and without intellectual abilities. These teams will be competing against other schools in the Merrimack Valley Conference.

### **Participation Requirements**

Student-Athletes and parents must submit the following prior to participation:

**Participation Packet** – includes Haverhill High School Permission Form, Medical History and NRH Consent.

**Physical Examination** - Student-athletes must present a valid physical on an annual basis. Physicals are valid for 13 months. Any student-athlete who has an expired or invalid physical will NOT be permitted to participate under any circumstances. Updated physicals should be submitted online or to the athletic department office through the course of the year. Physical examinations must be performed by a duly registered physician, physician's assistant, or nurse practitioner.

## ACADEMIC REQUIREMENTS FOR ELIGIBILITY IN ATHLETICS

A student-athlete must secure during the last marking period preceding seasonal tryouts (e.g., second quarter marks and not semester grades determine third quarter eligibility) a passing grade in the equivalent of four major subjects. To be eligible for the fall marking period, student-athletes are required to have earned credits for the previous academic year equivalent to four full year courses. Student-athletes must be enrolled full-time (minimum of four classes) at all time to be eligible to participate. The academic eligibility of all student-athletes shall be considered as official and determined only on the date when the report cards for that marking period have been issued. Incomplete grades will not be counted toward eligibility. The rules below also apply to academic eligibility:

1. A student-athlete who repeats work for which he or she has once received credit cannot count that subject a second time for eligibility.
2. A student-athlete cannot count for eligibility any subject taken during summer vacation unless that subject has previously been pursued and failed.

**\*Please see page 91 for information on: NCAA – NATIONAL COLLEGIATE ATHLETIC ASSOCIATION**

# HAVERHILL HIGH SCHOOL DIRECTORY

[Link to Website](#)

978-374-5700

Position	Name	Extension
Principal	Michael Downs	X1101 or x1154
Associate Principal	Victoria Lu	X1104
Assistant Principal	Nelly Garcia Santana	X1131
Assistant Principal	Sean McLaughlin	X1138
Assistant Principal	Jorge Ortega	X1130
Assistant Principal	Margaret Fitzgerald	X1109
Assistant Principal	Thomas Wright	X1118
Director of Guidance, Counseling & Student Support Services	Jami Dion	x1133
Career Technical Education, Supervisor	Victoria Kelley	X4131
Supervisor of School Counseling	Meg Arivella	x1187
Special Education Supervisor	Alyse Comeau	X1189
Athletic Director	Thomas O'Brien	X1141
Attendance Supervisor	Lorna Marchant	978-374-5730
English	Thessalea Heinrichs, Dean	978-420-1928
English Language Education	Meghan Greco, Dean	978-420-1933
Career Technical Education	Victoria Kelley, Supervisor	X4131
Fine Arts	Ellen Mullane, Dean	x4403
Library/Media Services	Henry Toromoreno	x1143
Mathematics	Daniel Tanguay, Dean	978-420-1904 x1139
Physical Education and Wellness	Cara Labelle, Dean	978-374-5700
Science, Technology and Engineering	Grace McIntyre, Dean	978-420-1976 x4730
Social Studies	John Craven, Dean	978-374-5700
World Languages	Zachary Eldridge, Dean	978-374-5700

Haverhill Public Schools does not discriminate on the basis of race, color, religion, national origin, gender, gender identity, sexual orientation, or disability in admission to, employment in, or treatment in its programs and activities