



H A V E R H I L L H I G H S C H O O L



P R O G R A M O F S T U D I E S

2 0 1 7 - 2 0 1 8

Haverhill High School
137 Monument Street
Haverhill, MA 01832

Haverhill Public Schools Mission Statement

The Haverhill Public School system is dedicated to ensuring each learner meets or exceeds rigorous academic standards to become citizens with integrity, skills, and the resources to succeed in the global community.

Haverhill High School Mission Statement

The Mission of Haverhill High School is to produce self-directed learners who read, write, and speak effectively in Standard English and who apply analytical and technological skills to interpret information and problem solve.



Haverhill High School Statement of Purpose

Haverhill High School, in cooperation with parents and community members, is committed to preparing all students with the skills necessary to become productive and socially responsible citizens in an ever-changing world. To this end, students plan their educational experiences with a view toward career choices, set goals, seek the assistance necessary to achieve their goals, and have high expectations for academic and personal growth.

Recognizing that our students have different backgrounds, interests, and abilities, Haverhill High School provides a wide range of educational programs and extracurricular activities to allow students to challenge themselves. The school offers a curriculum dedicated to linking a broad foundation in the liberal arts tradition with a variety of practical choices to prepare students for the transition to life and learning after high school.

All participants in the Haverhill High School partnership—students, teachers, administrators, support staff, parents, and community members—work together to create and sustain a safe, healthy, and supportive learning environment and physical facility. Our school is one where mutual respect and caring foster personal and social growth and responsibility.

Expectation #1	Academic	All students should read effectively in Standard English.
Expectation #2	Academic	All students should write effectively in Standard English.
Expectation #3	Academic	All students should speak effectively in Standard English.
Expectation #4	Academic	All students should apply analytical skills to interpret information and solve problems.
Expectation #5	Academic	All students should apply technological skills to interpret information and solve problems.
Expectation #6	Social	All students should respect themselves and others, understand their rights and responsibilities, and welcome other students to become part of our learning community.
Expectation #7	Civic	All students should participate in one or more of the following: government, civic organizations, and/or community service.
Expectation #8	Civic	All students should contribute to a safe and healthy learning environment by respecting and maintaining the building and grounds.



Haverhill Public Schools

Office of the Superintendent

Dear Students of Haverhill High,

The courses offered at Haverhill High School have been designed to provide all students with an academically rigorous challenge. These courses meet the academic needs of our diverse student body. Along with our academic courses, we provide all with a rich and varied selection of career oriented offerings. Haverhill High School's mission is to provide all students with opportunities and experiences that will allow all to be properly prepared for college or a career. Haverhill High School, along with a wide variety of academic offerings, allows all to participate in many athletic as well as the arts and social offerings.

As Superintendent of the Haverhill School system, our staff has worked hard to ensure that you receive an excellent comprehensive education that will enable you to find success after high school. I believe Haverhill High School's curriculum offerings will allow you to excel in whatever endeavor you attempt, be it college, the military, or the world of work. I personally hope and expect that you understand that success only can be achieved by your hard work. The challenges and choices are yours for these four years in large part, and they shape how the balance of your life will be lived. I wish you all the best...

Sincerely,

James F. Scully



Haverhill High School
137 Monument St.
Haverhill, MA 01832
Phone: 978-374-5700 Fax: 978-374-5705

Beth Kitsos, Principal
bkitsos@haverhill-ps.org

Dear Students, Parents and Guardians,

The Haverhill High School 2017-2018 Program of Studies has been created for our students to use as they plan their course of study to meet state and local graduation requirements. The planning process will encourage them to set goals and to develop their own unique individual student success plans that will assist them in successfully achieving those goals. Students will have choices as they review the variety of courses offered at HHS that highlight the diversity of opportunities and will assist them to develop the skills required to become successful in post-secondary plans. I am pleased to announce that our course selection has been expanded to give even more choice and opportunity to our diverse population in the FY18 school year.

Haverhill High School students are encouraged to take full advantage of the myriad of opportunities and to challenge themselves to reach new academic heights. The variety of rigorous course offerings will encourage students to stretch themselves academically beyond their comfort zone. Our highly qualified professional educators are always available to assist students and parents as they navigate the various pathways and opportunities that Haverhill High offers the students of Haverhill.

We look forward to a positive and productive 2017-2018 school year! This is an exciting time to be a Haverhill High Hillie!

Sincerely,

*Beth Kitsos
Principal*

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Haverhill High School hopes to offer all courses listed in this Program of Studies, but due to budget or enrollment priorities all offerings may not be available. Students and their parents or guardians should be aware of this possibility.

GRADUATION REQUIREMENTS

Twenty (20) credits are required for graduation from Haverhill High School. All students must satisfy the graduation requirements listed below. In addition, students must pass the English, Mathematics, and Science MCAS tests as required by state regulations to graduate with a Competency Determination (CD).

All students are strongly encouraged to meet the MassCore graduation requirements set forth by the Department of Elementary and Secondary Education. **MassCore is a state recommended, rigorous program of study that aligns high school course work with college and workforce expectations.** MassCore 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.

Area of Study	HHS Credits 20	MassCore Credits 22
English (I, II, III, IV)	4.0	4.0
Social Studies (Including 1 Credit in U.S. History)	3.0	3.0
Mathematics (*Must include Algebra II)	3.0	4.0*
Lab-based Science	3.0	3.0
Computer Technology	0.5	---
School-to-Career	1.0	---
Fine Arts or World Languages	1.0	---
Fine Arts	---	1.0
World Languages (*Must be same language)	---	2.0*
Wellness	2.0	---**
Public Speaking (Class of 2019+)	.5	---
Electives	2.0	---
Additional Mass Core credits (*Must be from technology, school to career, business, or additional core academic areas)	---	5.0

Note: Graduation requirements subject to change with School Committee approval.

*** Required by law*

Suggested Credits for Admission to Post-Secondary School

	English	Social Studies	Mathematics	Science	World Languages
Highly Selective Colleges	4	4	4-5	4	3-4
Four-Year Colleges	4	3	4	3-4	2-4
Two-Year Colleges	4	3	3	3	1-2
Technical Colleges	4	3	3	3	1-2

School-to-Career

Every student will eventually enter the work force. After high school, all students will choose to pursue an entry-level position in the workplace or secure additional skills and education by attending a two-year college, four-year college or a technical school.

Preparing all students to compete and perform in the real world is essential. The School to Career initiative provides the core proficiencies and academic competencies necessary for students to succeed in our globally competitive world. The School to Career vision is that this will be achieved through career-based learning experiences along with applied academics and increased emphasis on comprehensive career exploration.

ENGLISH ELECTIVES

JOURNALISM

WRITERS' EXPRESS: AN APPRENTICESHIP FOR PEER COACHING

HISTORY

INTRODUCTION TO PROGRAMMING

INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS

COMPUTER SCIENCE –A AP

COMPUTER SCIENCE: GAME DESIGN AND DEVELOPMENT

SCIENCE, TECHNOLOGY AND ENGINEERING

BIOLOGY AP

CHEMISTRY AP

MEDICAL TERMINOLOGY& HUMAN DISEASES

AP PHYSICS C: MECHANICS

INTRODUCTION TO PROGRAMMING

INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS

PRINCIPLES OF IT (CTE) HONORS

PRINCIPLES OF IT (NAF IT CVTE) HONORS

REPLICATING THE FUTURE

REPLICATING THE FUTURE (NAF IT CVTE) HONORS

COMPUTER SYSTEMS (NAF IT CVTE) HONORS

PROGRAMMING AND WEB DEVELOPMENT I (CTE) HONORS

COMPUTER NETWORKING (NAF IT CVTE) HONORS

iSCHOOL APPLIED TECHNOLOGY

CAD COMPUTER AIDED DRAFTING

CAREER TECHNICAL EDUCATION

CTE HEALTHCARE I HONORS

CTE HEALTHCARE II

INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS

PRINCIPLES OF IT (CTE) HONORS

PRINCIPLES OF IT (NAF IT CVTE) HONORS

REPLICATING THE FUTURE (NAF IT CVTE) HONORS

COMPUTER SYSTEMS (NAF IT CVTE) HONORS

PROGRAMMING AND WEB DEVELOPMENT I (CTE) HONORS

COMPUTER NETWORKING (NAF IT CVTE) HONORS

FINE ARTS

VISUAL ARTS

ADVANCED JEWELRY/METALSMITHING

MUSIC AND PERFORMING ARTS

JAZZ BAND HONORS

INTRODUCTION TO MUSIC SOFTWARE

AV STAGE TECH

BUSINESS ACADEMY

ACCOUNTING AND BUSINESS ELECTIVES

ACCOUNTING HONORS

ACCOUNTING I

MONEY MATTERS/PERSONAL FINANCE

BANKING INTERNSHIP

BUSINESS MARKETING

SPORTS AND ENTERTAINMENT MARKETING

INTRODUCTION TO HOSPITALITY AND TOURISM

DECA I: BUSINESS MARKETING AND MANAGEMENT

DECA II: INNOVATION, LEADERSHIP, AND COMMUNICATION

INTRODUCTION TO ECONOMICS

MICROECONOMICS AP

TECHNOLOGY AND BUSINESS ELECTIVES

ADVERTISING AND MEDIA RELATIONS I (COMPUTER)

ADVERTISING AND MEDIA RELATIONS II (TELEVISION)

GAME DEVELOPMENT AND DESIGN ELECTIVES

GAME DESIGN I

GAME DESIGN II

CARTOONING AND 3D ANIMATION

WEB DEVELOPMENT AND DESIGN ELECTIVES

WEB DEVELOPMENT AND DESIGN I

WEB DEVELOPMENT AND DESIGN II

TELEVISION PRODUCTION ELECTIVES

INTRODUCTION TO TELEVISION PRODUCTION

STUDIO TELEVISION PRODUCTION

ADVANCED TELEVISION PRODUCTION

ADVERTISING AND MEDIA RELATIONS I (COMPUTER)

ADVERTISING AND MEDIA RELATIONS II (TELEVISION)

CULINARY ARTS ELECTIVES

INTRODUCTION TO FOODS AND NUTRITION

BAKE SHOP

MULTICULTURAL FOODS

CULINARY ARTS

ADVANCED CULINARY ARTS

FASHION CONSTRUCTION AND DESIGN ELECTIVES

FASHION I

FASHION II

WOODWORKING TECHNOLOGY OR CONSTRUCTION ELECTIVES

INTRODUCTION TO WOODWORKING TECHNOLOGY

ADVANCED WOODWORKING TECHNOLOGY

FINE WOODWORKING TECHNOLOGY

HOUSE CONSTRUCTION

COSMETOLOGY ELECTIVES

COSMETOLOGY I

COSMETOLOGY II

WELLNESS

ADDITIONAL WELLNESS ELECTIVES

INTRODUCTION TO COACHING

FIRST AID AND CPR

MARINE CORPS JUNIOR ROTC

MCJROTC I

MCJROTC II

MCJROTC III

MCJROTC IV



HAVERHILL HIGH SCHOOL FOUR YEAR PLAN

NAME: _____ COUNSELOR: _____

9 TH GRADE	10 TH GRADE	11 TH GRADE	12 TH GRADE
English I	English II	English III	English IV
World History I	World History II	U.S. History	
Mathematics	Mathematics	Mathematics	Mathematics
Lab Science	Lab Science	Lab Science	Science
Wellness 9	Wellness 10		
World Language I	World Language II		
Fine Art	Fine Art		
School-to-Career	School-to-Career		
Computer Tech	Academy Courses	Academy Courses	Academy Courses
Total Credits:	Total Credits:	Total Credits:	Total Credits:

HAVERHILL HIGH SCHOOL GRADUATION REQUIREMENTS

<p>4 CREDITS OF ENGLISH 3 CREDITS OF SOCIAL STUDIES, WITH US HISTORY 3 CREDITS OF MATH 3 CREDITS OF LAB SCIENCE 1 CREDIT SCHOOL-TO-CAREER</p>	<p>1 CREDIT WORLD LANGUAGE OR FINE ART 0.5 CREDIT OF A COMPUTER TECH COURSE 2.0 CREDIT OF WELLNESS 2.0 CREDITS OF ELECTIVES 0.5 PUBLIC SPEAKING</p>
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PASS REQUIRED MCAS EXAMS: ENGLISH, MATHEMATICS AND SCIENCE

Post High School Plans:

2 year College
 4 year College
 Employment
 Armed Services
 Other

Promotion Requirements at HHS

4.5 Credits & pass English I and Algebra I to Enter Grade 10
 9.0 Credits & pass English II to Enter Grade 11
 13.5 Credits & pass English II to Enter Grade 12
 20.0 Credits, pass English IV & MCAS to Graduate

4 Year MA State College and UMASS Requirements:

4 Credits of English
 4 Credits of Math (Algebra I, Geometry, Algebra II, plus Senior Math)
 3 Credits of Social Studies (including US History)
 2 Credits of Foreign Language (single language)
 3 Credits of Lab-based Science
GPA of 3.0 is preferred

Grade Point Average Equivalents:

4.0 = A
 3.0 = B
 2.0 = C
 1.0 = D

FRESHMAN ACADEMY

Overarching Goal: Develop a tiered support system that ensures opportunity, access and equity for ALL.

The Freshman Academy has been established to build a greater sense of school community and to foster a successful transition from middle school to high school. This supports the long-term goals for student achievement, and creates a school culture in which adults and peers support each student. This team structure builds a strong school community that encourages meaningful relationships, increases attendance rates, decreases behavior incidents, teaches organizational skills necessary to be successful, and fosters high student achievement. All first-time freshmen, except for those enrolled in the Classical Academy and the NAF IT Academy, will be in the Freshman Academy. Specific objectives of the Freshman Academy include:

- Ensuring the academic success of all students using a comprehensive, research-based approach.
- Creating a safe and orderly learning environment that intentionally addresses the social, emotional, and academic needs of ninth grade students.
- Maintaining on-going communication with parents to establish a positive working relationship.
- Providing teachers with consistent use of planning time for collaboration on all aspects of curriculum design and instruction to support the achievement of all students.

SPECIAL EDUCATION

The Special Education Department provides specially designed instruction to meet the unique needs of students with disabilities. Students eligible for Special Education services have Individualized Educational Programs (IEP) that can include both Special Education and Regular Education courses. The primary goal of the department is to support and encourage maximum student involvement in regular education courses to the extent appropriate.

The Special Education Department and the Haverhill High School community are committed to meeting the educational and emotional needs of students with learning challenges in the least restrictive environment. Each Haverhill High School student with special needs is placed in accordance with the TEAM evaluation process. This process involves exploring and documenting all regular education alternatives prior to referral to Special Education.

Participation in the following Special Education courses is predicated upon recommendations made via the TEAM process and the receipt of a signed Individualized Educational Program accepting the course(s).

THE CLASSICAL ACADEMY

The Classical Academy is an admissions exam program within Haverhill High School that engages academically promising students in a challenging college preparatory curriculum intended to broaden and deepen their knowledge, skills, understandings, and civic commitment. The Classical Academy creates scholars who are well-rounded, cultured, self-disciplined, critical thinkers who can compete at the highest academic levels.

The Classical Academy is a contemporary classical education with emphasis in Latin and the humanities. Students take an entrance exam and based on their scores, teacher recommendations and their middle school transcripts are accepted in to the program. Many students, who would have attended private schools, have opted to choose Haverhill High for the sole purpose of participating in this program.

Students have a prescribed four-year curriculum. All core courses are honors or Advanced Placement levels. Students are required to take a minimum of three (3) Advanced Placement (AP) courses. **Beginning with the Class of 2020, students will be required to take a minimum of four (4) Advanced Placement (AP) courses.** Classical Academy students must take and pass three years of Latin. There are courses offered which are unique to the program.

In their freshman year, students 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, students take Wellness and a World Language. Students 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 students’ quarterly grades, anyone who fails to meet this standard at the time of final grades is excluded from the program.

In their sophomore year, students 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 student is enrolled.

In their junior year, students take AP US History and AP English, as well as, creative writing or public speaking; Mathematics and Science. Students may elect one and a half courses and are encouraged to take a second language including modern languages (French, Spanish, Italian and German) 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.

Senior year, students 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. Students are encouraged to take advanced placement or honors level courses.

The goal is to offer these students 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, students have had lectures by a juvenile district court judge, a Buddhist monk and a performance by a professional storyteller/poet. Students 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 students 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.

9th Grade Courses

- English I Honors
- World History I Honors
- Algebra I Honors or Algebra II Honors
- Life Science Honors
- A Classical Perspective - Literature
- A Classical Perspective – Studio
- Latin I Honors
- Wellness
- Chosen Elective

10th Grade Courses

- English II Honors
- European History AP
- Geometry Honors
- Chemistry Honors
- Latin II Honors
- Wellness
- One of the following:
 1. 2nd World Language (Honors Level)
 2. Another AP course (with teacher recommendation)
 3. 1 credit worth of Fine Arts electives and/or electives from another academy in which the student is enrolled.
 4. Classical Philosophy in the 21st Century (Formerly Research Seminar)

11th Grade Courses

- Literature and Composition AP
- US History AP
- Algebra II or Precalculus Honors
- Physics Honors or any honors level science
- Creative Writing H or Public Speaking ½ credit
- Latin III Honors or Latin III Honors Accelerated
- Second Language (year 1) or Chosen Elective

12th Grade Courses

- Language and Composition AP or English IV Honors
- Senior Seminar Honors ½ credit
- Fourth year of Mathematics (Precalculus Honors, Calculus Honors or AP, Statistics Honors or AP, etc.)
- ***Suggested Courses***
- Physics AP or Biology AP
- Latin IV Honors or Latin AP
- Second Language (year 2), Art History AP or any Chosen Elective

BUSINESS ACADEMY

The Haverhill High School Business Academy is to provide students with the opportunity to integrate academic and occupational-related instruction prepare them for success in life, education, and the 21st century marketplace in a supportive educational environment. The Business Academy will include exposure to a wide spectrum of post graduate options, marketable skills, and job related possibilities. Students will have the opportunity to earn industry certifications in certain classes or choose to participate in the DECA program.

To earn your academy designation at graduation you must complete the list of graduation requirements on page 6 and six (6) credits in your chosen academy electives listed below.

Possible Career Options

Accounting	Accountants, Auditors, Entrepreneurs, Bankers, Stockbrokers, Investors, Sales and Marketing Representatives
Game Development and Design	Game Designers, Game Developers
Web Development	Web Designers, Web Developers
Television Production	Film Crew, Film Editing
Culinary	Restaurant Chef, Line Chef, Dessert Chef
Fashion	Fashion Designer and Tailor
Woodworking	Carpenters, Architects, Cabinet Makers
Cosmetology	Hair Dresser, Nail Technician

Selecting Classes

Students can select classes from the various concentrations—Accounting, Business, Marketing, Finance, Technology in Business, Game Development and Design, Web Development and Design, Television Production, Culinary Arts, Fashion Design, or Cosmetology. They are encouraged to start with the intro classes as a freshman, if available. Please be sure to check the prerequisites of any class you choose so you can plan accordingly. Students should take all classes in their areas of concentration; some of which are outside the Business Academy. Please see your Guidance Counselor or the Dean of Business Academy to help you in your selections. All students are encouraged to take Business Marketing, Money Matters/Personal Finance, and Business Technology. They can then choose a more defined concentration such as marketing, advertising, hospitality and tourism, sports and entertainment management, or any other courses listed or in the Program of Studies. For students who want to further expand their business experience and put their chosen concentration to use, choose DECA I/II (honors level). Students can also choose to participate in the Internship Program to enhance their experiences. Students will receive a ½ credit for an internship.

Students can choose from the following classes in the following areas of concentration:

Accounting, Business, Marketing, Finance

Accounting I
Honors Accounting (Full Year)
Banking Internship
Money Matters/Personal Finance
Business Marketing
Sports and Entertainment Management
Intro to Hospitality and Tourism
DECA I/DECA II (Full Year)
Intro to Economics
AP Microeconomics (Full Year)

Technology and Business

Computer Technology
Workplace Technology
Advertising and Media Relations (Full Year)

Game Development and Design

Game Design I
Game Design II
Cartooning and 3D Animation

Web Development and Design

Web I
Web II

Television Production

Introduction to Television Production
Studio Television Production
Advanced Television Production
Screenplay Writing and Production (Full Year)
Advertising and Media Relations (Full Year)

Culinary Arts

Introduction to Foods and Nutrition
Bake Shop
Multicultural Foods
Culinary Arts (Industry Certification)
Advanced Culinary Arts

Fashion Design

Fashion I
Fashion II

Woodworking Technology/Construction

Introduction to Woodworking Technology
Advanced Woodworking Technology
Fine Woodworking Technology (Industry Certification)
House Construction (Full Year) (Industry Certification)

Cosmetology

Cosmetology I
Cosmetology II (Industry Certification)

Fundamentals of Life Skills

The purpose of teaching life skills is to give students the ability to increase their success outside of high school. To master life skills students must work on these daily for continual growth. In the life skills curriculum students will learn many of the fundamentals (an idea or skill that is essential for success in a given area) of life skills. In the life skills curriculum students will see many of the same fundamentals showing up in various life skills. Mastering these fundamentals is what makes the life skills work.

Life Skills Retail

Through a variety of tasks within the school store, students 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.

Regarding their tasks and placement, students are involved in:

Customer Service: Greeting and assisting customers, recognizing when they need assistance, answering questions regarding products and pricing, working at the cash register, making change, and thanking customers for their patronage.

Money Handling: Setting up our bank at the beginning of each day, handling money throughout the day, and calculating our sales at the end of each day.

Stocking and Inventory: Organizing our products. Unpacking deliveries, folding clothing, storing and retrieving items from the cabinets for display. Counting and recording our inventory.

Displays & Marketing: Hanging clothing by item and size. Assembling accessories and products such as water bottles, sunglasses and earbuds, into baskets and onto shelves. Creating store front displays and signs.

Cleaning: Cleaning and disinfecting counters, cabinets, display cases, windows; vacuuming, and emptying trash and recycling.

Life Skills Culinary

Students are taught the basic skills necessary in the food service industry to be hired in entry level positions. Tasks are first demonstrated by instructor and then performed and repeated by students.

Tasks taught on a daily basis include the following:

Customer Service: Greeting customers and answering questions pertaining to the menu.

Safety: Identify four (4) used for food preparation and how to use safely.

Sanitation: Cleaning tables and counters, sweeping and mopping floors and emptying trash and recycling.

Food Preparation: Basic skills are taught to include cleaning and cutting vegetables. A variety of soups and sandwiches are also prepared.

Food Storage: Serv/Save guidelines are followed in this class regarding proper cooking and storage temperature.



Industry Certifications

Business Academy Haverhill High School

Industry Certifications

Industry certifications earned through high school career programs and courses are an important component of Haverhill’s public education system. Industry certifications are defined below:

A voluntary process through which students are assessed by an independent, third-party certifying entity using predetermined standards for knowledge, skills, and competencies, resulting in the award of a credential that is nationally recognized and must be at least one of the following:

- (a) Within an industry that addresses a critical local or statewide economic need;*
- (b) Linked to an occupation that is included in the workforce system’s targeted occupation list; or*
- (c) Linked to an occupation that is identified as emerging..*

Even former President Barack Obama has called for more robust job training at both the high school and college levels, saying it’s not enough for students to get an education past high school – they also must have the skills needed for in-demand jobs. The president in April 2016 announced more than \$100 million in awards to redesign high schools to better prepare students for college or specific career industries, such as health care, technology and engineering.



INDUSTRY CERTIFICATIONS OFFERED BY THE BUSINESS ACADEMY

ServSafe—Culinary Arts

The ServSafe Food Handler Program is a complete solution that delivers consistent food safety training to students. The program covers five key areas:

- Basic Food Safety
- Personal Hygiene
- Cross-contamination & Allergens
- Time & Temperature
- Cleaning & Sanitation

Students will prepare for and take the ServSafe certification test in Culinary Arts.

OSHA—Woodworking Technology or Construction

OSHA-authorized trainers issue student course completion cards to individuals that successfully complete an OSHA Outreach Training Program class. The Outreach Training Program offers students a 10-hour class. The 10-hour outreach course provides basic awareness training on the recognition, avoidance, abatement, and prevention of workplace hazards. The course also provides information regarding workers’ rights, employer responsibilities, and filing a complaint. In order to obtain an OSHA card, an individual must take and successfully complete the entire class, including all requisite topics and the minimum number of contact hours. This card attests to the fact that the student completed the required number of hours for course completion. Students will prepare for and take the OSHA Outreach Training test in House Construction I or Fine Woodworking Technology.

Barbicide—Cosmotology II

Completing this free course takes less than an hour and will allow you to become Barbicide Certified. Earning a certificate and the opportunity to purchase a kit that includes a Barbicide Certified lapel pin and window cling. Demonstrate your dedication to providing safe services in the salon, spa or barbershop by becoming Barbicide® Certified! Students can prepare for and take the test in Cosmotology II.



DECA

Business Academy Haverhill High School

QUESTIONS ABOUT DECA?

What is DECA?

DECA is a business club that specializes in growth in the areas such as marketing, hospitality, management, finance/accounting, and service.

What are the different levels of competition?

There are three competitions. Regionals, states, and internationals. However, you can still attend the latter two competitions even if you aren't competing. You can attend workshops and seminars. There are also power trips and conferences throughout the year.

Who can join DECA?

Anyone in grades nine through twelve in high school can join DECA. Haverhill currently has a class for Juniors and Seniors. Students can join the HHS chapter by signing up for the classes offered in the Program of Studies—DECA I and DECA II.

Are there any prerequisites or costs to join DECA?

The Program of Studies will describe the class and the prerequisites. Students must take Business Marketing. They can also take classes in Retail, Sports Management, and Travel and Tourism, Advertising, Accounting, Personal Finance and/or Food Services prior to taking the DECA I and DECA II. The cost of the class is currently paid by HHS; however, there could be additional costs associated with travel to competitions and there could be fundraising required to defray the cost.

What are the perks of DECA?

DECA helps to provide you with life skills in terms of public speaking, critical thinking, and overall comfort in preparation skills as well as one-on-one conversations. DECA gives you skills that can help to benefit you in your educational career all the way into your job in the workforce.

How do I enroll?

For current juniors and seniors, read the course description. Look online at deca.com and read about the program. Freshmen and Sophomores will be required to meet the prerequisites for the course. There are currently several courses being offered that match the competitive events: Sports Management, Travel and Tourism, Personal Finance, Accounting, Marketing, Advertising, Food Services, and Retail. See the Dean of Business or your Guidance Counselor for more information.



PROGRAM DESCRIPTION

DECA (also known as **Collegiate DECA** on the college level, and previously known as **Delta Epsilon Chi** and **Distributive Education Clubs of America**) is an international association of high school and college students and teachers of marketing, management and entrepreneurship in business, finance, hospitality, and marketing sales and service. The organization prepares emerging leaders and entrepreneurs for careers and education in marketing, finance, hospitality, management, and other business areas. It is one of ten organizations listed as Career and Technical Student Organizations by the United States Department of Education. With over a 60-year history, DECA has impacted the lives of more than ten million students, educators, school administrators and business professionals since it was founded in 1946. DECA's programs and activities have constantly evolved and use the latest technology and updated curriculum

The Haverhill High School DECA program will enhance the preparation for college and careers by providing co-curricular programs that integrate into classroom instruction, applying learning in the context of business, connecting to business and the community and promoting competition. Our student members will use their DECA experience to become academically prepared, community oriented, professionally responsible, experienced leaders. DECA promotes value, competence, innovation, integrity and teamwork. This program will run as a class and not an after school club. It will be incorporated into the Business Academy curriculum.

DECA EXAMS FOR COMPETITIVE EVENTS

DECA currently uses only six industry-validated exams for the following competitive events. Each exam item represents a specific performance indicator from the respective national curriculum standards.

Marketing

Advertising Campaign
Apparel and Accessories Marketing Series
Automotive Services Series
Business Services Marketing Series
Buying and Merchandising Team Decision Making
Fashion Merchandising Promotion Plan
Food Marketing Series
Marketing Communications Series
Marketing Management Team Decision Making
Professional Selling
Retail Merchandising Series
Sports and Entertainment Marketing Series
Sports and Entertainment Marketing Team Decision Making
Sports and Entertainment Promotion Plan

Finance

Accounting Applications Series
Business Finance Series
Financial Consulting
Financial Services Team Decision Making

Hospitality and Tourism

Hospitality and Tourism Professional Selling
Hospitality Services Team Decision Making
Hotel and Lodging Management Series
Quick Service Restaurant Management Series Restaurant and Food Service Management Series
Travel and Tourism Team Decision Making

Business Administration

Principles of Business Management and Administration
Principles of Finance
Principles of Hospitality and Tourism
Principles of Marketing

Business Management

Business Law and Ethics Team Decision Making
Human Resources Management Series

Personal Financial Literacy

Personal Financial Literacy

Fine Arts Academy

Visual & Performing Arts



Careers/Salary

Art Directors

Art directors are responsible for the visual style and images in magazines, newspapers, product packaging, and movie and television productions. They create the overall design of a project and direct others who develop artwork and layouts.

Bachelor's degree
\$89,760

Craft and Fine Artists

Craft and fine artists use a variety of materials and techniques to create art for sale and exhibition. Craft artists create handmade objects, such as pottery, glassware, textiles, and other objects that are designed to be functional. Fine artists, including painters, sculptors, and illustrators, create original works of art for their aesthetic value, rather than for a functional one.

\$45,080

Fashion Designers

Fashion designers create original clothing, accessories, and footwear. They sketch designs, select fabrics and patterns, and give instructions on how to make the products they designed.

Bachelor's degree
\$63,670

Graphic Designers

Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate consumers. They develop the overall layout and production design for various applications such as advertisements, brochures, magazines, and corporate reports.

Bachelor's degree
\$46,900

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Industrial Designers

Industrial designers develop the concepts for manufactured products, such as cars, home appliances, and toys. They combine art, business, and engineering to make products that people use every day. Industrial designers consider the function, aesthetics, production costs, and the usability of products when developing new product concepts.

Bachelor's degree
\$67,130

Multimedia Artists and Animators

Multimedia artists and animators create animation and visual effects for television, movies, video games, and other forms of media.

Bachelor's degree
\$63,970

Music Directors and Composers

Music directors, also called conductors, lead orchestras and other musical groups during performances and recording sessions. Composers write and arrange original music in a variety of musical styles.

Bachelor's degree
\$49,820

Producers and Directors

Producers and directors create motion pictures, television shows, live theater, commercials, and other performing arts productions. They interpret a writer's script to entertain or inform an audience.

Bachelor's degree
\$68,440

Source:

<https://www.bls.gov/ooh/>

The Fine Arts Academy seeks to encourage a lifelong appreciation and involvement in the arts. The Fine Arts Academy fosters the individual growth of all students providing them with skills they will utilize throughout their life. Our goal is to enable students to develop and achieve their creative and expressive potential; while gaining skills needed to pursue a career within the arts or major in college. Students may specialize in either visual or performing arts. In addition to the General High School Sequence of Courses, students will take six (6) of the following electives, depending on their area of interest.

Music/ Choral/ Theatre Arts

- 2 years of an instrument or chorus is mandatory.
- 4 years is preferred if student wishes to pursue a college degree in Music/Performance.
- Seniors must perform in a recital for FAA distinction.

9th Grade Electives

- Band
- Jazz Band
- Guitar Workshop
- Chorus/ Chamber
- Music Exploration

10th Grade Electives

- Band
- Jazz Band
- Guitar Workshop
- Chorus/ Chamber
- History of Rock & Roll
- Keyboard Workshop
- Intro to Music Software
- Musical Theatre
- Music Exploration

11th & 12th Grade Electives

- Band
- Jazz Band
- Guitar Workshop
- Chorus/ Chamber
- History of Rock & Roll
- Keyboard Workshop
- Intro to Music Software
- Musical Theatre
- Music Exploration

Visual Arts

- Seniors must complete a portfolio for FAA distinction.
- All upper level Fine Arts classes will submit work to the Boston Globe Show, and other exhibition opportunities.

Required Course: Art Exploration

9th Grade Electives

- Photo I
- Jewelry
- Ceramics
- Studio Painting
- Studio Drawing
- Illustration

10th Grade Electives

- All 9th grade Electives
- Printmaking
- Advanced Jewelry
- Ceramics II
- Photo II
- Digital Design Workshop
- Sculpture and 3D Design
- AP Art History

11th & 12th Grade Electives

- Advanced Photo
- Digital Design Workshop II
- Advanced Printmaking
- AP Studio Art
- Studio Painting
- Studio Drawing

HUMANITIES ACADEMY

The humanities are the cornerstone of education and include such disciplines as English, history, classical studies, social sciences, art, philosophy and language. They teach students how to read and write and ways of teaching others to live fully and creatively in society. Additionally, they teach students how to use their imaginations, find beauty in experience, and reflect critically on that experience. They support all academic disciplines by clarifying social policy, developments in technology, economic ideals, and public and private values. Study of the humanities provides students with historical perspective and cultural awareness which gives them the ability to express themselves clearly and accurately, to critically evaluate, analyze and interpret ideas and actions, and the courage to make choices on shared values and priorities. The Humanities Academy will prepare students for careers in the fields of Humanities, Education and Political Science.

To earn your academy designation at graduation you must complete the list of graduation requirements on page 6 and six (6) credits in your chosen academy electives listed below.

Possible Career Options

Education and Social Services	Advocate, Teacher, College Professor, Human Rights Linguist , Social Worker, Anthropologist
Communications Electives	Journalist, Advertising Copywriter, Freelance Writer, Copy Editor in Publishing, Marketer, Communications Director, Publicist
Politics and Law Electives	Lawyer, Politician, Media Consultant, Political Consultant

Career Internship Opportunities

The purpose of the Career Internship is to provide students with a meaningful workplace experience working closely with a professional in a chosen field. The students will also participate in classes where they will build a career portfolio, including resumes, cover letters, interviewing skills, and ultimately, letters of recommendation. The students will also learn about labor laws and their rights in the workplace. This course runs during period J or two afternoons a week from 2:15 p.m.-5:15 p.m. Students will receive ½ credit per semester for satisfactory completion of all requirements.

Education and Social Services Electives – All students must earn a 75% or better on all electives

- Psychology
- Child Psychology I
- Child Psychology II
- Contemporary Issues
- Internship
- Public Speaking
- Sociology

Communications Electives

- Business Marketing
- Creative Writing
- Internship
- Journalism
- Networking in the 21st Century
- Philosophy
- Public Speaking

Politics and Law Electives

- Microeconomics AP
- U.S. Government AP and Politics/Civics*
- Contemporary Issues
- Honors Constitutional Law/Constitutional Law
- Honors Psychology/Psychology
- International Relations
- Internship
- Introduction to Economics
- Philosophy
- Public Speaking

STEM ACADEMY

The Science, Technology, Engineering, and Math (STEM) Academy at Haverhill High School provides students with the framework, courses, and support to realize their potential for success in STEM careers. Within the STEM Academy, students have the opportunity to explore STEM related fields, develop 21st Century skills, and get a head start on their post-secondary education. By freshman year, many students have already developed an interest in STEM topics and wish to focus their high school studies in this field. STEM-related careers are expected to grow significantly in the coming years, providing tremendous opportunities for people with a strong STEM background.

Students in the STEM Academy choose from among six different academic pathways: Health & Life Sciences; Engineering; Physical Sciences; Earth and Environmental Sciences; Information Technology and Applied Mathematics. The choice of a pathway and the array of electives available allow students to explore areas of personal interest and experience real-world applications of mathematics and science principles.

The STEM Academy offers students opportunities to explore, build awareness and immerse themselves into STEM careers through field trips, guest speakers, project-based learning activities and internships. Students study a range of STEM topics by building an individualized schedule consisting of required and elective courses (see below). The STEM Academy is available to all students who are interested in science, technology, engineering, or mathematics

In addition to the General High School Sequence of Courses listed on page 7, students will take the following courses, depending on their area of interest. All STEM pathways require the successful completion of a minimum of six (6) courses.

Students are encouraged to plan their course of study in collaboration with Guidance. Some electives have pre-requisites that must be met prior to enrollment.

To earn your academy designation at graduation you must complete the list of graduation requirements on page 6 and six (6) credits in your chosen academy electives listed below.

Possible Career Options

Engineering:	Manufacturing, Chemical, Civil, or Mechanical Engineer, Drafter, Landscape Architect, or Surveyor
Physical Sciences:	Chemist, Forensics, Teacher, Product Safety Specialist, Energy Auditor, or Astronomer
Information Technology:	Cloud Architect, Computer Forensics, Health, IT Specialist, Web Developer, or Data Modeler
Life/Health Science:	Nurse's Aide, Medical Coding, Dental Assistant, X-Ray Technician, Nursing, EMT, Paramedic, Veterinarian, Physical Therapist, Exercise Sciences or Doctor
Earth & Environmental Sciences:	Meteorologist, Environmental Scientist, Oceanographer or Park Ranger
Applied Mathematics:	Financial Analyst, Cryptographer, Actuarial Scientist, Sports Statistician, or Risk Analyst

Career Internship Opportunities

The purpose of the Career Internship is to provide students with a meaningful workplace experience working closely with a professional in a chosen field. The students will also participate in classes where they will build a career portfolio, including resumes, cover letters, interviewing skills, and ultimately, letters of recommendation. The students will also learn about labor laws and their rights in the workplace. This course runs during period J or two afternoons a week from 2:15 p.m.-5:15 p.m. Students will receive ½ credit per semester for satisfactory completion of all requirements.

Engineering Electives

- Chemistry AP + Lab
- Computer Science AP
- Physics C: Mechanics AP
- CAD#
- Calculus
- Computer-Aided Modeling#
- Physics
- Robotics#

Physical Science Electives

- Chemistry AP + Lab
- Computer Science AP
- Physics C: Mechanics AP

- Astronomy#
- Calculus
- Computer-Aided Modeling#
- Probability and Statistics or Statistics AP

Life/Health Sciences Electives

- Biology AP
- Calculus
- Physics or AP Physics C: Mechanics
- Precalculus
- Zoology

Earth & Environmental Sciences Electives

- Environmental Science AP

- Physics AP
- Astronomy#
- Computer-Aided Modeling#
- Intro to Oceanography#
- Meteorology#

- Computer Science AP
- Statistics AP
- Computer-Aided Modeling#
- Creative Software Solutions
- Intro to Programming
- Probability and Statistics

Applied Mathematics Electives

Information Technology Electives NAF IT

- Computer Science AP
- iSchool Applied Technology

- Replicating the Future
- Web Design

^ does not count toward pathway requirements

denotes ½ credit course

*Fourth year of math required for admission to state colleges and universities; may also be counted toward Physical Sciences and Life/Health Sciences pathways.





Programming & Web Development

Career Technical Education (CTE)

Industry Certifications

- OSHA General Industry Safety

Possible Careers

Median Salary / Industry Growth / Education

- *Computer Network Architects*
\$98k / 9% / Bachelor's
- *Computer Systems Analyst*
\$83k / 21% / Bachelor's
- *Database Administrator*
\$80k / 11% / Bachelor's
- *IT Security Analyst*
\$89k / 18% / Bachelor's
- *Network & Computer Systems Admin*
\$76k / 8% / Bachelor's
- *Software Developer*
\$98k / 17% / Bachelor's
- *Web Developer*
\$63k / 27% / Associate's

* Some jobs may require secondary education, a certificate or licensing.

Source: Bureau of Labor Statistic Website (Occupational Outlook Handbook: www.bls.gov/ooh)

College/Industry Partners

Megahertz Computer
Northern Essex Community College
MV Workforce Investment Board



www.haverhill-ps.org/cte

Program Description

Programming & Web Development provides an in-depth focus on programming and coding and its many applications within software, web and app development. Students will learn to create:

- dynamic and user-friendly websites;
- apps to improve productivity;
- games for entertainment and education;
- code to control networks; and
- programs to keep computer systems safe.

Haverhill High School is a leader in preparing students for high demand STEM careers. As a comprehensive high school, HHS is able to offer a wider variety of technical courses than smaller private schools. Additionally, HHS offers rigorous Advanced Placement® courses and concurrent enrollment opportunities for those students interested in attending highly competitive universities and colleges.

The program incorporates college and career readiness activities including resume building, developing a portfolio, job search skills and interviewing skills. Using our career awareness-exploration-immersion model, students will have the opportunity to investigate various job opportunities through job shadowing, site visits, guest speakers and internships. Ultimately, students will complete the program with a semester-long internship or capstone project.

Program Content

- Safety & OSHA Standards
- Workplace Etiquette
- Computer Fundamentals
- Software Development
- Website Development
- Basic, Intermediate and Advanced Programming
- App Development
- Operating Systems
- Computer Networking
- Computer & Network Security
- Database Concepts & Planning
- Project Management
- Entrepreneurship

Application Process

Applications are available online at the Haverhill High School website and through middle school guidance counselors.

Advisory Board

Collaboration with business partners, community leaders and higher education provides real-world industry context.

** Interested in exploring other areas of IT? The Academy of Information Technology allows you to learn about computers, computer networks, physical hardware, operating systems, applications and software.*



NAF Academy of Information Technology

Career Vocational Technical Education (CVTE)

Industry Certifications

- OSHA General Industry Safety

Possible Careers

Salary/Industry Growth/Education

- *Computer Network Architects*
\$98k / 9% / Bachelor's
- *Computer Support Specialist*
\$50k / 12% / Entry Level – Bachelor's
- *Computer Systems Analyst*
\$83k / 21% / Bachelor's
- *Database Administrator*
\$80k / 11% / Bachelor's
- *Hardware Engineer*
- *IT Security Analyst*
\$89k / 18% / Bachelor's
- *Network & Computer Systems Admin*
\$76k / 8% / Bachelor's
- *Robotics Engineering*
- *Software Developer*
\$98k / 17% / Bachelor's

* Some jobs may require secondary education, a certificate or licensing.

Source: Bureau of Labor Statistic Website
(Occupational Outlook Handbook:
www.bls.gov/ooh)

College/Industry Partners

3M
Juniper Networks
Magellan Aerospace
McGraw Hill
Megahertz Computer
NAF (formerly National Academy Foundation)
Northern Essex Community College
Omtool
Schneider Electric
MV Workforce Investment Board



www.haverhill-ps.org/cte

Program Description

This NAF Academy of Information Technology is an approved vocational program under MGL Chapter 74. Students will gain a variety of skills across a broad spectrum of hardware and software solutions that drive technological innovation in a modern society. The NAF Academy of Information Technology is a career technical program that prepares students for a career or post-secondary education in a broad and growing sector of the economy. Upon completion of the program, students earn a NAFTrack Certification, which entitles them to preferential hiring opportunities with NAFTrack partners such as Juniper Networks, Cisco Systems, HP, AT&T, EMC², Verizon and Xerox.

Haverhill High School is a leader in preparing students for high demand STEM careers. As a comprehensive high school, HHS is able to offer a wider variety of technical courses than smaller private schools. Additionally, HHS offers rigorous Advanced Placement[®] courses and concurrent enrollment opportunities for those students interested in attending highly competitive universities and colleges. Students will also be prepared to complete certificate programs allowing them to immediately enter the technology industry.

The program incorporates college and career readiness activities (e.g. resume building, developing a portfolio, job search and interviewing skills) as well as opportunities for students to identify and build important qualities to be successful in this industry (e.g. critical thinking, communication, organization). Using our career awareness-exploration-immersion model, students will have the opportunity to investigate various job opportunities through job shadowing, site visits, guest speakers and internships. Students are required to complete a six-week internship between their junior and senior year.

Program Content

- Computer Fundamentals
- Basic, Intermediate and Advanced Programming
- Software Development
- Hardware & Peripherals
- Computer Networking
- Troubleshooting
- Robotics
- 3D Printing
- Entrepreneurship
- Client-Server Architecture
- Cloud Computing
- Analytical Skills
- Critical Thinking
- Problem Solving
- Communication Skills

Advisory Board

Collaboration with business partners, community leaders and higher education provides real-world industry context.



Healthcare Occupations

Career Technical Education (CTE)

Industry Certifications

- OSHA General Industry Safety
- Healthcare Level CPR & First Aid
- Certified Nursing Assistant (CNA)
- EMT (optional)

Possible Careers

Salary / Industry Growth / Education

- *Dental Assistant*
\$35k / 18% / Certificate
- *Emergency Medical Technician (EMT)*
\$32k / 24% / Certificate
- *Certified Nurse Assistant*
\$25k / 17% / Certificate or License
- *Clinical Lab Technician*
\$49k / 16% / Certificate – Bachelor’s
- *Licensed Practical Nurse*
\$42k / 16% / License
- *Medical Assistant*
\$30k / 23% / Certificate
- *Phlebotomist*
\$31k / 25% / Certificate
- *Physical Therapist*
\$82k / 34% / Advanced Degree
- *Physical Therapist Assistant*
\$41k / 40% / Associate’s
- *Physician Assistant*
\$96k / 30% / Master’s
- *Registered Nurse*
\$66k / 16% / Associate’s or Bachelor’s

* Some jobs may require secondary education, a certificate or licensing.

Source: Bureau of Labor Statistic Website
(Occupational Outlook Handbook:
www.bls.gov/ooh)

College/Industry Partners

Holy Family Hospital @ Merrimack Valley
Lawrence General Hospital
Northern Essex Community College
MV Workforce Investment Board
Starfire EMS



www.haverhill-ps.org/cte

Program Description

Our Healthcare Occupations program will provide students with the fundamentals of healthcare through rigorous coursework and practical clinical experience using state of the art technology, equipment and techniques. Students will be prepared to provide clinical support to a health care team in a hospital or office setting. The program will also prepare students for continued post-secondary education to meet their career goals. Upon graduation, students will be well prepared for several certification exams such as Healthcare Level CPR and First Aid, CNA, Medical Assistant and OSHA.

Haverhill High School is a leader in preparing students for high demand STEM careers. As a comprehensive high school, HHS is able to offer a wider variety of technical courses than smaller private schools. Additionally, HHS offers rigorous Advanced Placement® courses and concurrent enrollment opportunities for those students interested in attending highly competitive universities and colleges. Students will also be prepared to complete certificate programs allowing them to immediately enter the healthcare industry.

The program incorporates college and career readiness activities including resume building, developing a portfolio, job search skills and interviewing skills. Using our career awareness-exploration-immersion model, students will have the opportunity to explore, job shadow and intern at local hospitals, nursing homes, assisted living facilities and long-term rehabilitation hospitals.

Program Content

- Safety & OSHA Standards
- HIPPA Laws
- Professional Practices in Healthcare
- Workplace Etiquette
- Medical Records
- Patient Personal Care & Hygiene
- Medical Terminology
- Nutrition
- Anatomy & Physiology
- Vital Signs
- Emergency & Triage Procedures
- First Aid & CPR
- Medications
- Clinical Lab Skills

Application Process

Applications are available online at the Haverhill High School website and through middle school guidance counselors.

Advisory Board

Collaboration with business partners, community leaders and higher education provides real-world industry context.

DUAL ENROLLMENT

Beginning August 2017, Haverhill High School and Northern Essex Community College have partnered to replace the Early College Program with enhanced dual enrollment offerings for students in Junior and Senior year. The courses offered will represent expanded subject areas to create seamless pathways of transfer credits through the Mass Transfer Block. Courses offered through dual enrollment are college-level courses for students who are looking for increased academic challenges while earning both high school and college credit. All dual enrollment courses will be held at the NECC campus and students will be enrolled into preexisting classes. Students must take an Accuplacer exam and meet established benchmark scores, which are set by NECC, to be eligible for participation.

There are two pathways to Dual Enrollment. Students can either choose a prescribed set of two courses per semester beginning their junior year at a cost of \$700/year or can opt to take individual courses within the Mass Transfer Block. Dual Enrollment courses run from 12:30-1:45pm. Students must provide their own transportation to the college and home.

Cohort	Fall	Spring
Sophomore		Accuplacer Testing
Junior	ENG 101 12:30 p.m./1:00 p.m. M/W FYS101 12:30 p.m./1:00 p.m. T/TH	HIS 102 U.S. History I 12:30 p.m./1:00 p.m. M/W Pathway Course 12:30/1:00pm T/TH
Senior	ENG 102 English Composition 12:30 p.m./1:00 p.m. M/W Pathway Course 12:30 p.m./1:00 p.m. T/TH	Psychology 101, History 102 M/W Pathway Course 12:30/1:00pm T/TH



ADVANCED PLACEMENT PROGRAM

Haverhill High School offers a rich program of Advanced Placement (AP) courses designed for students who wish to pursue a rigorous course of study that reflects college/university expectations. There are specific prerequisites for Advanced Placement courses, which can be found within each course description.

All students enrolled in an AP course must take the CollegeBoard Advanced Placement Test in the course area for which they are registered. The acceptance of college credit varies from each higher education institution. If an AP student does not take the AP exam, he or she will receive the quality points awarded for Honors credit rather than AP credit, and class rank will be recalculated. These tests are administered at the high school in May.

Below is a list of the nineteen (19) Advanced Placement courses offered at Haverhill High School. The list includes the page number for course description of each AP course.

Course #	Course	Content Area	Page
H0023	English Language & Composition	Humanities	38
H0031	English Literature & Composition	Humanities	38
H1110	European History	Humanities	44
H1115	United States History	Humanities	44
H1200	United States Government & Politics	Humanities	45
H2234	Calculus AB	Mathematics	51
H2238	Statistics	Mathematics	51
H2246	Computer Science – A	Mathematics	52
H3317	Biology	Science	54
H3343	Chemistry	Science	55
H	Physics C: Mechanics	Science	58
H3336	Environmental Science	Science	47
H5526	Art History	Fine Arts	77
H5527	Studio Art	Fine Arts	78
H6627	Microeconomics	School to Career/Business	82
H4761	Spanish Language and Composition	World Languages	68
H4496	Latin AP: Vergil	World Languages	67
H	Italian	World Languages	66
H4434	German	World Languages	65

HAVERHILL HIGH SCHOOL

COURSE OFFERINGS 2017-2018

ENGLISH

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FRESHMAN ENGLISH PROGRAM

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
ENGLISH I HONORS	SEMESTER I	CRS H0001	GR 9	CR ½	S
ENGLISH I HONORS	SEMESTER II	CRS H0001	GR 9	CR ½	S
ENGLISH I CP	SEMESTER I	CRS H0003	GR 9	CR ½	S
ENGLISH I CP	SEMESTER II	CRS H0003	GR 9	CR ½	S
FUNDAMENTALS OF ENGLISH I	SEMESTER I	CRS H8005	GR 9	CR ½	S
FUNDAMENTALS OF ENGLISH I	SEMESTER II	CRS H8005	GR 9	CR ½	S

SOPHOMORE ENGLISH PROGRAM

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
FUNDAMENTALS OF ENGLISH II	SEMESTER I	CRS H8007	GR 10	CR ½	S
FUNDAMENTALS OF ENGLISH II	SEMESTER II	CRS H8007	GR 10	CR ½	S
ENGLISH II HONORS	SEMESTER I	CRS H0009	GR 10	CR ½	S
ENGLISH II HONORS	SEMESTER II	CRS H0009	GR 10	CR ½	S
ENGLISH II CP	SEMESTER I	CRS H0011	GR 10	CR ½	S
ENGLISH II CP	SEMESTER II	CRS H0011	GR 10	CR ½	S

JUNIOR ENGLISH PROGRAM

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
ENGLISH LITERATURE & COMPOSITION AP		CRS H0031	GR 11-12	CR 1	Y
ENGLISH III HONORS	SEMESTER I	CRS H0017	GR 11	CR ½	S
ENGLISH III HONORS	SEMESTER II	CRS H0017	GR 11	CR ½	S
ENGLISH III CP	SEMESTER I	CRS H0019	GR 11	CR ½	S
ENGLISH III CP	SEMESTER II	CRS H0019	GR 11	CR ½	S
FUNDAMENTALS OF ENGLISH III	SEMESTER I	CRS H8009	GR 11	CR ½	S
FUNDAMENTALS OF ENGLISH III	SEMESTER II	CRS H8009	GR 11	CR ½	S
ENGLISH COMPOSITION I <small>DUAL ENROLLMENT - NECC</small>		CRS H0026 ^{EC}	GR 11	CR 1	S

SENIOR ENGLISH PROGRAM

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
ENGLISH LANGUAGE & COMPOSITION AP		CRS H0023	GR 11-12	CR 1	Y
ENGLISH IV HONORS	SEMESTER I	CRS H0025	GR 12	CR ½	S
ENGLISH IV HONORS	SEMESTER II	CRS H0025	GR 12	CR ½	S
FUNDAMENTALS OF ENGLISH IV	SEMESTER I	CRS H8004	GR 12	CR ½	S
FUNDAMENTALS OF ENGLISH IV	SEMESTER II	CRS H8004	GR 12	CR ½	S
ENGLISH COMPOSITION II <small>DUAL ENROLLMENT - NECC</small>		CRS H0030 ^{EC}	GR 12	CR 1	S

ENGLISH ELECTIVES

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
WRITTEN EXPRESSION IN THE 21 ST CENTURY		CRS H0033	GR 11-12	CR ½	S
PUBLIC SPEAKING		CRS H0035	GR 9-12	CR ½	S
JOURNALISM	SEMESTER I	CRS H0037	GR 10-12	CR ½	S
JOURNALISM	SEMESTER II	CRS H0037	GR 10-12	CR ½	S
WRITERS' EXPRESS: AN APPRENTICESHIP FOR PEER COACHING		CRS H0040	GR 12	CR ½	S
IDENTITY IN LITERATURE*		CRS H0065	GR 10-12	CR ½	S
LATIN IDENTITY IN LITERATURE*		CRS H0066	GR 10-12	CR ½	S
WORLD LITERATURE*		CRS H0067	GR 10-12	CR ½	S
THE ROLE OF DRAMA IN LITERATURE*		CRS H0068	GR 10-12	CR ½	S
SCIENCE FICTION/FANTASY*		CRS H0069	GR 10-12	CR ½	S
CENSORSHIP IN LITERATURE*		CRS H0073	GR 10-12	CR ½	S
FUTURISTIC SOCIETIES*		CRS H0070	GR 10-12	CR ½	S
SPORTS WRITING AND LITERATURE		CRS H0049	GR 10-12	CR ½	S
POETRY AND LYRICS IN HISTORICAL AND SOCIAL CONTEXTS*		CRS H0071	GR 10-12	CR ½	S
21 ST CENTURY LITERATURE*		CRS H0072	GR 10-12	CR ½	S

*Replacement of English 12 CP

HISTORY

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COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
WORLD HISTORY I HONORS	SEMESTER I	CRS H1101	GR 9	CR ½	S
WORLD HISTORY I HONORS	SEMESTER II	CRS H1101	GR 9	CR ½	S
WORLD HISTORY I CP	SEMESTER I	CRS H1103	GR 9	CR ½	S
WORLD HISTORY I CP	SEMESTER II	CRS H1103	GR 9	CR ½	S
ELE WORLD HISTORY I CP	SEMESTER I	CRS H1108	GR 9-10	CR ½	S
ELE WORLD HISTORY I CP	SEMESTER II	CRS H1108	GR 9-10	CR ½	S
FUNDAMENTALS OF WORLD HISTORY I	SEMESTER	CRS H8121	GR 9	CR 1	Y
WORLD HISTORY II HONORS	SEMESTER I	CRS H1109	GR 10	CR ½	S
WORLD HISTORY II HONORS	SEMESTER II	CRS H1109	GR 10	CR ½	S
WORLD HISTORY II CP	SEMESTER I	CRS H1111	GR 10	CR ½	S
WORLD HISTORY II CP	SEMESTER II	CRS H1111	GR 10	CR ½	S
ELE WORLD HISTORY II CP	SEMESTER I	CRS H1114	GR 10-12	CR ½	S
ELE WORLD HISTORY II CP	SEMESTER II	CRS H1114	GR 10-12	CR ½	S
FUNDAMENTALS OF WORLD HISTORY II		CRS H8123	GR 10	CR 1	Y
EUROPEAN HISTORY AP		CRS H1110	GR 10-12	CR 1	Y
U.S. HISTORY 1890-1945 HONORS	SEMESTER I	CRS H1117	GR 11	CR ½	S
U.S. HISTORY 1846-PRESENT HONORS	SEMESTER II	CRS H1117	GR 11	CR ½	S
U.S. HISTORY 1890-1945 CP	SEMESTER I	CRS H1119	GR 11	CR ½	S
U.S. HISTORY 1846-PRESENT CP	SEMESTER II	CRS H1119	GR 11	CR ½	S
ELE U.S. HISTORY II CP	SEMESTER I	CRS H1122	GR 11-12	CR ½	S
ELE U.S. HISTORY II CP	SEMESTER II	CRS H1122	GR 11-12	CR ½	S
U.S. HISTORY II <small>DUAL ENROLLMENT - NECC</small>		CRS H1122 _{EC}	GR 11	CR 1	S
FUNDAMENTALS OF U.S. HISTORY II		CRS H8125	GR 11	CR 1	Y
U.S. HISTORY AP		CRS H1115	GR 11	CR 1	Y

HISTORY ELECTIVES

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
HISTORY OF THE CITY OF HAVERHILL		CRS H1125	GR 9-12	CR ½	S
PSYCHOLOGY		CRS H1127	GR 11-12	CR ½	S
PSYCHOLOGY <small>DUAL ENROLLMENT - NECC</small>		CRS H1127EC	GR 12	CR 1	S
PSYCHOLOGY HONORS		CRS H1130	GR 11-12	CR ½	S
U.S. GOVERNMENT AND POLITICS AP		CRS H1200	GR 11-12	CR 1	Y
CONSTITUTIONAL LAW HONORS	SEMESTER I	CRS H1134	GR 11-12	CR ½	S
CONSTITUTIONAL LAW HONORS	SEMESTER II	CRS H1134	GR 11-12	CR ½	S
CONSTITUTIONAL LAW CP	SEMESTER I	CRS H1133	GR 11-12	CR ½	S
CONSTITUTIONAL LAW CP	SEMESTER II	CRS H1133	GR 11-12	CR ½	S
INTERNATIONAL RELATIONS					
COLLEGE PREP		CRS H1135	GR 10-12	CR ½	S
INTERNATIONAL RELATIONS HONORS		CRS H1139	GR 10-12	CR ½	S
PHILOSOPHY		CRS H1136	GR 10-12	CR ½	S
CONTEMPORARY ISSUES		CRS H1141	GR 11-12	CR ½	S
NETWORKING IN THE 21 ST CENTURY		CRS H1149	GR 11-12	CR ½	S
CHILD PSYCHOLOGY I		CRS H1645	GR 10-12	CR ½	S
CHILD PSYCHOLOGY II		CRS H1647	GR 11-12	CR ½	S
SOCIOLOGY		CRS H1641	GR 10-12	CR ½	S
THE HOLOCAUST AND CRIMES AGAINST HUMANITIES		CRS H1140	GR 10-12	CR ½	S
CIVICS		CRS H1153	GR 9-12	CR ½	S
WOMEN'S AND GENDER STUDIES		CRS H9610	GR 11-12	CR ½	S
THE CONTEMPORARY MIDDLE EAST		CRS H9611	GR 9-12	CR ½	S
A CLASSICAL PERSPECTIVE – LITERATURE <i>(Classical Academy Only)</i>		CRS H9600	GR 9	CR ½	S
CLASSICAL PHILOSOPHY IN THE 21 ST CENTURY		CRS H9602	GR 10-12	CR ½	S
SENIOR SEMINAR <i>(Classical Academy Only)</i>		CRS H1145	GR 12	CR ½	S

MATHEMATICS

Pages 48-53

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
MATHEMATICS SUPPORT		CRS H2200	GR 9	CR ½	S
MATHEMATICS SUPPORT		CRS H9616	GR 10	CR ½	S
FOUNDATIONS OF ALGEBRA	SEMESTER I	CRS H2201	GR 9	CR ½	S
FOUNDATIONS OF ALGEBRA	SEMESTER II	CRS H2201	GR 9	CR ½	S
ALGEBRA I HONORS	SEMESTER I	CRS H2207	GR 9	CR ½	S
ALGEBRA I HONORS	SEMESTER II	CRS H2207	GR 9	CR ½	S
ALGEBRA I CP	SEMESTER I	CRS H2209	GR 9	CR ½	S
ALGEBRA I CP	SEMESTER II	CRS H2209	GR 9	CR ½	S
ALGEBRA I CP A	SEMESTER I	CRS H2210	GR 9	CR ½	S
ALGEBRA I CP A	SEMESTER II	CRS H2210	GR 9	CR ½	S
ELE FOUNDATIONS OF ALGEBRA I	SEMESTER I	CRS H2275	GR 10-12	CR ½	S
ELE FOUNDATIONS OF ALGEBRA I	SEMESTER II	CRS H2275	GR 10-12	CR ½	S
ELE ALGEBRA I CP	SEMESTER I	CRS H2277	GR 9-11	CR ½	S
ELE ALGEBRA I CP	SEMESTER II	CRS H2277	GR 9-11	CR ½	S
GEOMETRY HONORS	SEMESTER I	CRS H2215	GR 9-11	CR ½	S
GEOMETRY HONORS	SEMESTER II	CRS H2215	GR 9-11	CR ½	S
GEOMETRY CP	SEMESTER I	CRS H2217	GR 10-12	CR ½	S

GEOMETRY CP	SEMESTER II	CRS H2217	GR 10-12	CR ½	S
ELE GEOMETRY CP	SEMESTER I	CRS H2279	GR 10-12	CR ½	S
ELE GEOMETRY CP	SEMESTER II	CRS H2279	GR 10-12	CR ½	S
INTERMEDIATE ALGEBRA	SEMESTER I	CRS H2212	GR 11-12	CR ½	S
INTERMEDIATE ALGEBRA	SEMESTER II	CRS H2212	GR 11-12	CR ½	S
ALGEBRA II HONORS	SEMESTER I	CRS H2223	GR 10-12	CR ½	S
ALGEBRA II HONORS	SEMESTER II	CRS H2223	GR 10-12	CR ½	S
ALGEBRA II CP	SEMESTER I	CRS H2225	GR 10-12	CR ½	S
ALGEBRA II CP	SEMESTER II	CRS H2225	GR 10-12	CR ½	S
PRECALCULUS HONORS	SEMESTER I	CRS H2229	GR 11-12	CR ½	S
PRECALCULUS HONORS	SEMESTER II	CRS H2229	GR 11-12	CR ½	S
CALCULUS HONORS	SEMESTER I	CRS H2232	GR 12	CR ½	S
CALCULUS HONORS	SEMESTER II	CRS H2232	GR 12	CR ½	S
CALCULUS AP - AB		CRS H2234	GR 11-12	CR 1	Y
PROBABILITY AND STATISTICS	SEMESTER I	CRS H2237	GR 11-12	CR ½	S
PROBABILITY AND STATISTICS	SEMESTER II	CRS H2237	GR 11-12	CR ½	S
STATISTICS AP		CRS H2238	GR 11-12	CR 1	Y
INTRODUCTION TO PROGRAMMING		CRS H2243	GR 10-12	CR ½	S
INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS		CRS H9652	GR 10	CR ½	S
ROBOTICS		CRS H2280	GR 9-12	CR ½	S
ROBOTICS (NAF IT CVTE)		CRS H9656	GR 9	CR ½	S
COMPUTER SCIENCE –A AP		CRS H2246	GR 11-12	CR 1	Y
COMPUTER SCIENCE: GAME DESIGN AND DEVELOPMENT		CRS H2248	GR 12	CR 1	Y
ALGEBRA & TRIGONOMETRY: A FUNCTIONS APPROACH	SEMESTER I	CRS H2258	GR 12	CR ½	S
ALGEBRA & TRIGONOMETRY: A FUNCTIONS APPROACH	SEMESTER II	CRS H2258	GR 12	CR ½	S
ACCOUNTING HONORS	SEMESTER I	CRS H6631	GR 11-12	CR ½	S
ACCOUNTING HONORS	SEMESTER II	CRS H6631	GR 11-12	CR ½	S

SCIENCE, TECHNOLOGY AND ENGINEERING

Pages 53-61

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
BIOLOGY HONORS	SEMESTER I	CRS H3313	GR 9	CR ½	S
BIOLOGY HONORS	SEMESTER II	CRS H3313	GR 9	CR ½	S
BIOLOGY CP	SEMESTER I	CRS H3315	GR 9	CR ½	S
BIOLOGY CP	SEMESTER II	CRS H3315	GR 9	CR ½	S
ELE BIOLOGY I	SEMESTER I	CRS H7343	GR 9-12	CR ½	S
ELE BIOLOGY I	SEMESTER II	CRS H7343	GR 9-12	CR ½	S
ELE BIOLOGY II	SEMESTER I	CRS H9617	GR 9-12	CR ½	S
ELE BIOLOGY II	SEMESTER II	CRS H9617	GR 9-12	CR ½	S
BIOLOGY AP		CRS H3317	GR 11-12	CR 1	Y
BIOLOGY AP LAB		CRS H3317L	GR 11-12	CR 1	Y
CHEMISTRY HONORS	SEMESTER I	CRS H3319	GR 10-12	CR ½	S
CHEMISTRY HONORS	SEMESTER II	CRS H3319	GR 10-12	CR ½	S
CHEMISTRY CP	SEMESTER I	CRS H3321	GR 10-12	CR ½	S
CHEMISTRY CP	SEMESTER II	CRS H3321	GR 10-12	CR ½	S
CHEMISTRY AP		CRS H3343	GR 11-12	CR 1	Y
CHEMISTRY AP LAB		CRS H3343L	GR 11-12	CR 1	Y
BIOLOGY: MCAS PREP		CRS H3410	GR 9-10	CR ½	S
ANATOMY & PHYSIOLOGY HONORS	SEMESTER I	CRS H3332	GR 11-12	CR ½	S
ANATOMY & PHYSIOLOGY HONORS	SEMESTER II	CRS H3332	GR 11-12	CR ½	S

ANATOMY & PHYSIOLOGY CP	SEMESTER I	CRS H3331	GR 11-12	CR ½	S
ANATOMY & PHYSIOLOGY CP	SEMESTER II	CRS H3331	GR 11-12	CR ½	S
INTRODUCTION TO STEM CAREERS		CRS H3310	GR 9-12	CR ½	S
ZOOLOGY AND LAB CP	SEMESTER I	CRS H3352	GR 10-12	CR ½	S
ZOOLOGY AND LAB CP	SEMESTER II	CRS H3352	GR 10-12	CR ½	S
ZOOLOGY AND LAB HONORS	SEMESTER I	CRS H3353	GR 10-12	CR ½	S
ZOOLOGY AND LAB HONORS	SEMESTER II	CRS H3353	GR 10-12	CR ½	S
MEDICAL TERMINOLOGY & HUMAN DISEASES		CRS H3425	GR 11-12	CR ½	S
BIOTECHNOLOGY & FORENSICS COLLEGE PREP		CRS H3341	GR 10-12	CR ½	S
EARTH SCIENCE HONORS	SEMESTER I	CRS H3308	GR 10-12	CR ½	S
EARTH SCIENCE HONORS	SEMESTER II	CRS H3308	GR 10-12	CR ½	S
EARTH SCIENCE CP	SEMESTER I	CRS H3309	GR 10-12	CR ½	S
EARTH SCIENCE CP	SEMESTER II	CRS H3309	GR 10-12	CR ½	S
ENVIRONMENTAL SCIENCE COLLEGE PREP		CRS H3335	GR 10-12	CR ½	S
ENVIRONMENTAL SCIENCE AP		CRS H3336	GR 11-12	CR 1	Y
METEOROLOGY COLLEGE PREP		CRS H3349	GR 10-12	CR ½	S
INTRODUCTION TO OCEANOGRAPHY CP		CRS H3357	GR 10-12	CR ½	S
INTRODUCTION TO ASTRONOMY CP		CRS H3355	GR 10-12	CR ½	S
PHYSICS HONORS	SEMESTER I	CRS H3325	GR 10-12	CR ½	S
PHYSICS HONORS	SEMESTER II	CRS H3325	GR 10-12	CR ½	S
PHYSICS CP	SEMESTER I	CRS H3327	GR 10-12	CR ½	S
PHYSICS CP	SEMESTER II	CRS H3327	GR 10-12	CR ½	S
PHYSICS C: MECHANICS AP		CRS H	GR 11-12	CR 1	Y
INTRODUCTION TO ENGINEERING I	SEMESTER I	CRS H3333	GR 11-12	CR ½	S
INTRODUCTION TO ENGINEERING I	SEMESTER II	CRS H3333	GR 11-12	CR ½	S
INTRODUCTION TO ENGINEERING II	SEMESTER I	CRS H3334	GR 11-12	CR ½	S
INTRODUCTION TO ENGINEERING II	SEMESTER II	CRS H3334	GR 11-12	CR ½	S
COMPUTER-AIDED MODELING IN THE PHYSICAL SCIENCES (CAMPS)		CRS H3320	GR 11-12	CR ½	S
INTRODUCTION TO PROGRAMMING		CRS H2243	GR 10-12	CR ½	S
INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS		CRS H9652	GR 10	CR ½	S
PRINCIPLES OF IT (CTE) HONORS		CRS H6136	GR 9	CR ½	S
PRINCIPLES OF IT (NAF IT CVTE) HONORS		CRS H9653	GR 9	CR ½	S
REPLICATING THE FUTURE		CRS H6652	GR 11-12	CR ½	S
REPLICATING THE FUTURE (NAF IT CVTE) HONORS		CRS H9654	GR 11	CR ½	S
ROBOTICS		CRS H2280	GR 10-12	CR ½	S
ROBOTICS (NAF IT CVTE)		CRS H9656	GR 9		
COMPUTER SYSTEMS (NAF IT CVTE) HONORS		CRS H9651	GR 10	CR ½	S
PROGRAMMING AND WEB DEVELOPMENT I (CTE) HONORS		CRS H9652	GR 9	CR ½	S
COMPUTER NETWORKING (NAF IT CVTE) HONORS		CRS H9650	GR 11	CR ½	S
iSCHOOL APPLIED TECHNOLOGY		CRS H6648	GR 10-12	CR ½	S
CAD COMPUTER AIDED DRAFTING		CRS H6651	GR 10-12	CR ½	S
EMERGENCY MEDICAL TECHNICIAN (EMT)		CRS EM1101	GR 12	CR 2	Y

CAREER TECHNICAL EDUCATION (CTE)

Pages 61-62

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
CTE HEALTHCARE I HONORS		CRS H9619	GR 9	CR 1	Y
CTE HEALTHCARE II		CRS H	GR 10	CR 1	Y
INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS		CRS H9652	GR 10	CR ½	S
PRINCIPLES OF IT (CTE) HONORS		CRS H6136	GR 9	CR ½	S
PRINCIPLES OF IT (NAF IT CVTE) HONORS		CRS H9653	GR 9	CR ½	S
REPLICATING THE FUTURE (NAF IT CVTE) HONORS		CRS H9654	GR 11	CR ½	S
ROBOTICS (NAF IT CTE)		CRS H9656	GR 9	CR ½	S
COMPUTER SYSTEMS (NAF IT CVTE) HONORS		CRS H9651	GR 10	CR ½	S
PROGRAMMING AND WEB DEVELOPMENT I (CTE) HONORS		CRS H9652	GR 9	CR ½	S
COMPUTER NETWORKING (NAF IT CVTE) HONORS		CRS H9650	GR 11	CR ½	S

WORLD LANGUAGES

Pages 63-68

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
CLASSICAL GREEK I HONORS	SEMESTER I	CRS H4497	GR 10-12	CR ½	S
CLASSICAL GREEK I HONORS	SEMESTER II	CRS H4497	GR 10-12	CR ½	S
CLASSICAL GREEK II HONORS	SEMESTER I	CRS H4500	GR 10-12	CR ½	S
CLASSICAL GREEK II HONORS	SEMESTER II	CRS H4500	GR 10-12	CR ½	S
CLASSICAL GREEK III HONORS	SEMESTER I	CRS H4499	GR 11-12	CR ½	S
CLASSICAL GREEK III HONORS	SEMESTER II	CRS H4499	GR 11-12	CR ½	S
FRENCH I HONORS	SEMESTER I	CRS H4403	GR 9-12	CR ½	S
FRENCH I HONORS	SEMESTER II	CRS H4403	GR 9-12	CR ½	S
FRENCH I CP	SEMESTER I	CRS H4405	GR 9-12	CR ½	S
FRENCH I CP	SEMESTER II	CRS H4405	GR 9-12	CR ½	S
FRENCH II HONORS	SEMESTER I	CRS H4407	GR 9-12	CR ½	S
FRENCH II HONORS	SEMESTER II	CRS H4407	GR 9-12	CR ½	S
FRENCH II CP	SEMESTER I	CRS H4409	GR 9-12	CR ½	S
FRENCH II CP	SEMESTER II	CRS H4409	GR 9-12	CR ½	S
FRENCH III HONORS	SEMESTER I	CRS H4411	GR 10-12	CR ½	S
FRENCH III HONORS	SEMESTER II	CRS H4411	GR 10-12	CR ½	S
FRENCH IV HONORS	SEMESTER I	CRS H4415	GR 11-12	CR ½	S
FRENCH IV HONORS	SEMESTER II	CRS H4415	GR 11-12	CR ½	S
GERMAN I HONORS	SEMESTER I	CRS H4421	GR 9-12	CR ½	S
GERMAN I HONORS	SEMESTER II	CRS H4421	GR 9-12	CR ½	S
GERMAN I CP	SEMESTER I	CRS H4423	GR 9-12	CR ½	S
GERMAN I CP	SEMESTER II	CRS H4423	GR 9-12	CR ½	S
GERMAN II HONORS	SEMESTER I	CRS H4425	GR 9-12	CR ½	S
GERMAN II HONORS	SEMESTER II	CRS H4425	GR 9-12	CR ½	S
GERMAN II CP	SEMESTER I	CRS H4427	GR 9-12	CR ½	S
GERMAN II CP	SEMESTER II	CRS H4427	GR 9-12	CR ½	S
GERMAN III HONORS	SEMESTER I	CRS H4429	GR 10-12	CR ½	S
GERMAN III HONORS	SEMESTER II	CRS H4429	GR 10-12	CR ½	S

GERMAN IV HONORS	SEMESTER I	CRS H4431	GR 11-12	CR ½	S
GERMAN IV HONORS	SEMESTER II	CRS H4431	GR 11-12	CR ½	S
GERMAN AP		CRS H4434	GR 12	CR 1	Y
ITALIAN I HONORS	SEMESTER I	CRS H4435	GR 9-12	CR ½	S
ITALIAN I HONORS	SEMESTER II	CRS H4435	GR 9-12	CR ½	S
ITALIAN I CP	SEMESTER I	CRS H4437	GR 9-12	CR ½	S
ITALIAN I CP	SEMESTER II	CRS H4437	GR 9-12	CR ½	S
ITALIAN II HONORS	SEMESTER I	CRS H4439	GR 9-12	CR ½	S
ITALIAN II HONORS	SEMESTER II	CRS H4439	GR 9-12	CR ½	S
ITALIAN II CP	SEMESTER I	CRS H4441	GR 9-12	CR ½	S
ITALIAN II CP	SEMESTER II	CRS H4441	GR 9-12	CR ½	S
ITALIAN III HONORS	SEMESTER I	CRS H4443	GR 10-12	CR ½	S
ITALIAN III HONORS	SEMESTER II	CRS H4443	GR 10-12	CR ½	S
ITALIAN IV HONORS	SEMESTER I	CRS H4445	GR 11-12	CR ½	S
ITALIAN IV HONORS	SEMESTER II	CRS H4445	GR 11-12	CR ½	S
ITALIAN AP		CRS H	GR 12	CR 1	Y
LATIN I HONORS	SEMESTER I	CRS H4483	GR 9-12	CR ½	S
LATIN I HONORS	SEMESTER II	CRS H4483	GR 9-12	CR ½	S
LATIN II HONORS	SEMESTER I	CRS H4487	GR 9-12	CR ½	S
LATIN II HONORS	SEMESTER II	CRS H4487	GR 9-12	CR ½	S
LATIN III HONORS	SEMESTER I	CRS H4491	GR 10-12	CR ½	S
LATIN III HONORS	SEMESTER II	CRS H4491	GR 10-12	CR ½	S
LATIN III HONORS ACCELERATED	SEMESTER I	CRS H4490	GR 11-12	CR ½	S
LATIN III HONORS ACCELERATED	SEMESTER II	CRS H4490	GR 11-12	CR ½	S
LATIN IV HONORS	SEMESTER I	CRS H4493	GR 11-12	CR ½	S
LATIN IV HONORS	SEMESTER II	CRS H4493	GR 11-12	CR ½	S
LATIN AP: VERGIL		CRS H4496	GR 12	CR 1	Y
SPANISH I HONORS	SEMESTER I	CRS H4461	GR 9-12	CR ½	S
SPANISH I HONORS	SEMESTER II	CRS H4461	GR 9-12	CR ½	S
SPANISH I CP	SEMESTER I	CRS H4463	GR 9-12	CR ½	S
SPANISH I CP	SEMESTER II	CRS H4463	GR 9-12	CR ½	S
SPANISH II HONORS	SEMESTER I	CRS H4465	GR 9-12	CR ½	S
SPANISH II HONORS	SEMESTER II	CRS H4465	GR 9-12	CR ½	S
SPANISH II CP	SEMESTER I	CRS H4467	GR 9-12	CR ½	S
SPANISH II CP	SEMESTER II	CRS H4467	GR 9-12	CR ½	S
SPANISH III HONORS	SEMESTER I	CRS H4469	GR 10-12	CR ½	S
SPANISH III HONORS	SEMESTER II	CRS H4469	GR 10-12	CR ½	S
SPANISH IV HONORS	SEMESTER I	CRS H4473	GR 11-12	CR ½	S
SPANISH IV HONORS	SEMESTER II	CRS H4473	GR 11-12	CR ½	S
SPANISH LANGUAGE & COMPOSITION AP		CRS H4761	GR 11-12	CR 1	Y
SPANISH FOR NATIVE SPEAKERS I	SEMESTER I	CRS H4755	GR 9-12	CR ½	S
SPANISH FOR NATIVE SPEAKERS I	SEMESTER II	CRS H4755	GR 9-12	CR ½	S
SPANISH FOR NATIVE SPEAKERS II	SEMESTER I	CRS H4757	GR 9-12	CR ½	S
SPANISH FOR NATIVE SPEAKERS II	SEMESTER II	CRS H4757	GR 9-12	CR ½	S
SPANISH FOR NATIVE SPEAKERS III	SEMESTER I	CRS H4759	GR 9-12	CR ½	S
SPANISH FOR NATIVE SPEAKERS III	SEMESTER II	CRS H4759	GR 9-12	CR ½	S

ENGLISH LANGUAGE EDUCATION

Pages 68-76

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
ELE READING COMPREHENSION I	SEMESTER I	CRS H7330	GR 9-10	CR ½	S
ELE READING COMPREHENSION I	SEMESTER II	CRS H7330	GR 9-10	CR ½	S
ELE READING COMPREHENSION I	SEMESTER I	CRS H7336	GR 11-12	CR ½	S
ELE READING COMPREHENSION I	SEMESTER II	CRS H7336	GR 11-12	CR ½	S
ELE WRITING I	SEMESTER I	CRS H7331	GR 9-10	CR ½	S

ELE WRITING I	SEMESTER II	CRS H7331	GR 9-10	CR ½	S
ELE WRITING I	SEMESTER I	CRS H7339	GR 11-12	CR ½	S
ELE WRITING I	SEMESTER II	CRS H7339	GR 11-12	CR ½	S
ELE READING COMPREHENSION II	SEMESTER I	CRS H7350	GR 9-10	CR ½	S
ELE READING COMPREHENSION II	SEMESTER II	CRS H7350	GR 9-10	CR ½	S
ELE READING COMPREHENSION II	SEMESTER I	CRS H7332	GR 11-12	CR ½	S
ELE READING COMPREHENSION II	SEMESTER II	CRS H7332	GR 11-12	CR ½	S
ELE WRITING II	SEMESTER I	CRS H7351	GR 9-10	CR ½	S
ELE WRITING II	SEMESTER II	CRS H7351	GR 9-10	CR ½	S
ELE WRITING II	SEMESTER I	CRS H7340	GR 11-12	CR ½	S
ELE WRITING II	SEMESTER II	CRS H7340	GR 11-12	CR ½	S
ELE READING COMPREHENSION III	SEMESTER I	CRS H7370	GR 9-10	CR ½	S
ELE READING COMPREHENSION III	SEMESTER II	CRS H7370	GR 9-10	CR ½	S
ELE READING COMPREHENSION III	SEMESTER I	CRS H7333	GR 11-12	CR ½	S
ELE READING COMPREHENSION III	SEMESTER II	CRS H7333	GR 11-12	CR ½	S
ELE WRITING III	SEMESTER I	CRS H7371	GR 9-10	CR ½	S
ELE WRITING III	SEMESTER II	CRS H7371	GR 9-10	CR ½	S
ELE WRITING III	SEMESTER I	CRS H7341	GR 11-12	CR ½	S
ELE WRITING III	SEMESTER II	CRS H7341	GR 11-12	CR ½	S
ELE READING COMPREHENSION IV	SEMESTER I	CRS H7335	GR 9-10	CR ½	S
ELE READING COMPREHENSION IV	SEMESTER II	CRS H7335	GR 9-10	CR ½	S
ELE READING COMPREHENSION IV	SEMESTER I	CRS H7337	GR 11-12	CR ½	S
ELE READING COMPREHENSION IV	SEMESTER II	CRS H7337	GR 11-12	CR ½	S
ELE WRITING IV	SEMESTER I	CRS H7334	GR 9-10	CR ½	S
ELE WRITING IV	SEMESTER II	CRS H7334	GR 9-10	CR ½	S
ELE WRITING IV	SEMESTER I	CRS H7352	GR 11-12	CR ½	S
ELE WRITING IV	SEMESTER II	CRS H7352	GR 11-12	CR ½	S
ELE READING AND WRITING V	SEMESTER I	CRS H7353	GR 9-10	CR ½	S
ELE READING AND WRITING V	SEMESTER II	CRS H7353	GR 9-10	CR ½	S
ELE READING AND WRITING V	SEMESTER I	CRS H7338	GR 11-12	CR ½	S
ELE READING AND WRITING V	SEMESTER II	CRS H7338	GR 11-12	CR ½	S
ELE WORLD HISTORY I CP	SEMESTER I	CRS H1108	GR 9-10	CR ½	S
ELE WORLD HISTORY I CP	SEMESTER II	CRS H1108	GR 9-10	CR ½	S
ELE WORLD HISTORY II CP	SEMESTER I	CRS H1114	GR 10-12	CR ½	S
ELE WORLD HISTORY II CP	SEMESTER II	CRS H1114	GR 10-12	CR ½	S
ELE U.S. HISTORY II CP	SEMESTER I	CRS H1122	GR 11-12	CR ½	S
ELE U.S. HISTORY II CP	SEMESTER II	CRS H1122	GR 11-12	CR ½	S
ELE ALGEBRA I CP	SEMESTER I	CRS H2277	GR 9-11	CR ½	S
ELE ALGEBRA I CP	SEMESTER II	CRS H2277	GR 9-11	CR ½	S
ELE FOUNDATIONS OF ALGEBRA I	SEMESTER I	CRS H2275	GR 10-12	CR ½	S
ELE FOUNDATIONS OF ALGEBRA I	SEMESTER II	CRS H2275	GR 10-12	CR ½	S
ELE GEOMETRY CP	SEMESTER I	CRS H2279	GR 10-12	CR ½	S
ELE GEOMETRY CP	SEMESTER II	CRS H2279	GR 10-12	CR ½	S
ELE BIOLOGY I	SEMESTER I	CRS H7343	GR 9-12	CR ½	S
ELE BIOLOGY I	SEMESTER II	CRS H7343	GR 9-12	CR ½	S
ELE BIOLOGY II	SEMESTER I	CRS H9617	GR 9-12	CR ½	S
ELE BIOLOGY II	SEMESTER II	CRS H9617	GR 9-12	CR ½	S

FINE ARTS

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VISUAL ARTS

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
ART EXPLORATION		CRS H5501	GR 9-12	CR ½	S
STUDIO DRAWING		CRS H5505	GR 9-12	CR ½	S
STUDIO PAINTING		CRS H5507	GR 9-12	CR ½	S
JEWELRY MAKING/METALSMITHING		CRS H5511	GR 10-12	CR ½	S
ADVANCED JEWELRY/METALSMITHING		CRS H5512	GR 10-12	CR ½	S
CERAMICS I		CRS H5513	GR 10-12	CR ½	S
CERAMICS II		CRS H5514	GR 10-12	CR ½	S
PHOTOGRAPHY I		CRS H5515	GR 9-12	CR ½	S
PHOTOGRAPHY II		CRS H5517	GR 10-12	CR ½	S
ADVANCED PHOTOGRAPHY		CRS H5518	GR 11-12	CR ½	S
ART HISTORY AP		CRS H5526	GR 11-12	CR 1	Y
STUDIO ART AP		CRS H5527	GR 11-12	CR 1	Y
PRINTMAKING		CRS H5502	GR 9-12	CR ½	S
DIGITAL DESIGN WORKSHOP I		CRS H9612	GR 10-12	CR ½	S
DIGITAL DESIGN WORKSHOP II		CRS H9613	GR 11-12	CR ½	S
SCULPTURE & 3-D DESIGN		CRS H5504	GR 10-12	CR ½	S
ILLUSTRATION WORKSHOP		CRS H5510	GR 10-12	CR ½	S
THEATER DESIGN AND STAGE CRAFT		CRS H5597	GR 10-12	CR ½	S
A CLASSICAL PERSPECTIVE – STUDIO (Classical Academy Only)		CRS H9601	GR 9	CR ½	S

MUSIC AND PERFORMING ARTS

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
CHORUS	SEMESTER I	CRS H5551	GR 9-12	CR ½	S
CHORUS	SEMESTER II	CRS H5551	GR 9-12	CR ½	S
CHAMBER CHORUS HONORS	SEMESTER I	CRS H5559	GR 10-12	CR ½	S
CHAMBER CHORUS HONORS	SEMESTER II	CRS H5559	GR 10-12	CR ½	S
BAND	SEMESTER I	CRS H5563	GR 9-12	CR ½	S
BAND	SEMESTER II	CRS H5563	GR 9-12	CR ½	S
JAZZ BAND HONORS	SEMESTER I	CRS H5565	GR 9-12	CR ½	S
JAZZ BAND HONORS	SEMESTER II	CRS H5565	GR 9-12	CR ½	S
GUITAR WORKSHOP		CRS H5571	GR 9-12	CR ½	S
HISTORY OF ROCK AND ROLL		CRS H5572	GR 10-12	CR ½	S
KEYBOARD WORKSHOP		CRS H5570	GR 9-12	CR ½	S
INTRODUCTION TO MUSIC SOFTWARE		CRS H5578	GR 10-12	CR ½	S
MUSICAL THEATRE		CRS H5579	GR 9-12	CR ½	S
AV STAGE TECH		CRS H5580	GR 9-12	CR ½	S
MUSIC EXPLORATION		CRS H5581	GR 9-12	CR ½	S

BUSINESS ACADEMY

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ACCOUNTING AND BUSINESS ELECTIVES

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
ACCOUNTING HONORS	SEMESTER I	CRS H6631	GR 11-12	CR ½	S
ACCOUNTING HONORS	SEMESTER II	CRS H6631	GR 11-12	CR ½	S
ACCOUNTING I		CRS H6619	GR 9-12	CR ½	S
MONEY MATTERS/PERSONAL FINANCE		CRS H6628	GR 10-12	CR ½	S
BANKING INTERNSHIP		CRS H6629	GR 11-12	CR ½	S
BUSINESS MARKETING		CRS H6613	GR 9-12	CR ½	S
SPORTS AND ENTERTAINMENT MARKETING		CRS 12163	GR 10-12	CR ½	S
INTRODUCTION TO HOSPITALITY AND TOURISM		CRS 12159	GR 10-12	CR ½	S
DECA I: BUSINESS MARKETING AND MANAGEMENT	SEMESTER I	CRS 12099	GR 11-12	CR ½	S
DECA II: INNOVATION, LEADERSHIP, AND COMMUNICATION	SEMESTER II	CRS 12099	GR 11-12	CR ½	S
INTRODUCTION TO ECONOMICS		CRS H6625	GR 9-12	CR ½	S
MICROECONOMICS AP		CRS H6627	GR 11-12	CR 1	Y

TECHNOLOGY AND BUSINESS ELECTIVES

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
COMPUTER TECHNOLOGY		CRS H6601	GR 9-12	CR ½	S
WORKPLACE TECHNOLOGY		CRS 10008	GR 10-12	CR ½	S
ADVERTISING AND MEDIA RELATIONS I (COMPUTER)	SEMESTER I	CRS 10202	GR 10-12	CR ½	S
ADVERTISING AND MEDIA RELATIONS II (TELEVISION)	SEMESTER II	CRS 10202	GR 10-12	CR ½	S

GAME DEVELOPMENT AND DESIGN ELECTIVES

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
GAME DESIGN I		CRS H6636	GR 9-12	CR ½	S
GAME DESIGN II		CRS H6645	GR 10-12	CR ½	S
CARTOONING AND 3D ANIMATION		CRS H6634	GR 10-12	CR ½	S

WEB DEVELOPMENT AND DESIGN ELECTIVES

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
WEB DEVELOPMENT AND DESIGN I		CRS H6632	GR 9-12	CR ½	S
WEB DEVELOPMENT AND DESIGN II		CRS H6633	GR 10-12	CR ½	S

TELEVISION PRODUCTION ELECTIVES

<u>COURSE</u>	<u>SEMESTER</u>	<u>COURSE #</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>TERM</u>
INTRODUCTION TO TELEVISION PRODUCTION		CRS H6637	GR 9-12	CR ½	S
STUDIO TELEVISION PRODUCTION		CRS H6640	GR 10-12	CR ½	S
ADVANCED TELEVISION PRODUCTION		CRS H6638	GR 11-12	CR ½	S

FILM STUDY WORKSHOP		CRS H6639	GR 11-12	CR ½	S
FILM SCRIPT	SEMESTER I	CRS H0055	GR 11-12	CR ½	S
FILM CRAFT	SEMESTER II	CRS H0055	GR 11-12	CR ½	S
ADVERTISING AND MEDIA RELATIONS I (COMPUTER)	SEMESTER I	CRS 10202	GR 10-12	CR ½	S
ADVERTISING AND MEDIA RELATIONS II (TELEVISION)	SEMESTER II	CRS 10202	GR 10-12	CR ½	S

CULINARY ARTS ELECTIVES

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
INTRODUCTION TO FOODS AND NUTRITION		CRS H6671	GR 9-12	CR ½	S
BAKE SHOP		CRS H6675	GR 10-12	CR ½	S
MULTICULTURAL FOODS		CRS H6677	GR 10-12	CR ½	S
FOOD FOR HEALTH		CRS H6676	GR 10-12	CR ½	S
CULINARY ARTS		CRS H6673	GR 10-12	CR ½	S
ADVANCED CULINARY ARTS		CRS H6674	GR 10-12	CR ½	S

FASHION CONSTRUCTION AND DESIGN ELECTIVES

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
FASHION I		CRS H6679	GR 10-12	CR ½	S
FASHION II		CRS H6681	GR 10-12	CR ½	S

WOODWORKING TECHNOLOGY OR CONSTRUCTION ELECTIVES

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
INTRODUCTION TO WOODWORKING TECHNOLOGY		CRS H6659	GR 9-12	CR ½	S
ADVANCED WOODWORKING TECHNOLOGY		CRS H6666	GR 10-12	CR ½	S
FINE WOODWORKING TECHNOLOGY		CRS H6669	GR 10-12	CR ½	S
HOUSE CONSTRUCTION	SEMESTER I	CRS H6667	GR 10-12	CR ½	S
HOUSE CONSTRUCTION	SEMESTER II	CRS H6667	GR 10-12	CR ½	S

COSMETOLOGY ELECTIVES

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
COSMETOLOGY I		CRS H6682	GR 11-12	CR ½	S
COSMETOLOGY II		CRS H6683	GR 11-12	CR ½	S

WELLNESS

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COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
PHYSICAL EDUCATION I		CRS H7726	GR 9-12	CR ½	S
HEALTH I		CRS H7729	GR 9-12	CR ½	S
HEALTH II		CRS H7730	GR 10-12	CR ½	S
FUNDAMENTALS OF WELLNESS 9		CRS H8766	GR 9-12	CR ½	S
FUNDAMENTALS OF WELLNESS 10		CRS H8767	GR 10-12	CR ½	S

PHYSICAL EDUCATION ELECTIVES

Must take one of the following to earn second required physical education credit.

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
TEAM SPORTS		CRS H7707	GR 10-12	CR ½	S
PERSONAL HEALTH AND FITNESS		CRS H7712	GR 10-12	CR ½	S
LIFEGUARDING		CRS H7736	GR 10-12	CR ½	S
INDIVIDUAL & NET SPORTS		CRS H7737	GR 10-12	CR ½	S
YOGA		CRS H7738	GR 10-12	CR ½	S
WEIGHTLIFTING		CRS H7735	GR 10-12	CR ½	S

ADDITIONAL WELLNESS ELECTIVES

Please note: The following credits do not count toward physical education graduation requirement.

COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
INTRODUCTION TO COACHING		CRS H7715	GR 11-12	CR ½	S
FIRST AID AND CPR		CRS H7713	GR 11-12	CR ½	S
ADDICTIONS		CRS H7716	GR 11-12	CR ½	S

MARINE CORPS JUNIOR ROTC

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COURSE	SEMESTER	COURSE #	GRADE	CREDIT	TERM
MCJROTC I	SEMESTER I	CRS H6696	GR 9-12	CR ½	S
MCJROTC I	SEMESTER II	CRS H6696	GR 9-12	CR ½	S
MCJROTC II	SEMESTER I	CRS H6697	GR 10-12	CR ½	S
MCJROTC II	SEMESTER II	CRS H6697	GR 10-12	CR ½	S
MCJROTC III	SEMESTER I	CRS H6698	GR 11-12	CR ½	S
MCJROTC III	SEMESTER II	CRS H6698	GR 11-12	CR ½	S
MCJROTC IV	SEMESTER I	CRS H6699	GR 12	CR ½	S
MCJROTC IV	SEMESTER II	CRS H6699	GR 12	CR ½	S



COURSE DESCRIPTIONS

ENGLISH

Whether students 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 students develop the necessary skills for success in the 21st century. All English classes engage students in reading, writing, speaking, and listening. Students read a range of complex texts, learn to cite evidence and analyze information, write effectively for a variety of purposes and audiences, and conduct meaningful research. In addition to giving and receiving feedback, students learn more about the basic traits of writing – ideas, organization, voice, word choice, sentence fluency, conventions, and presentation. Students 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 students at Haverhill High School are required to pass four years of English. The English Department is committed to helping all students to achieve high academic standards. The department nurtures and challenges students, encouraging them to express their ideas clearly and to think critically about the world around them. The course offerings in the ELA curriculum enable students to become stronger readers, writers, speakers, listeners, and thinkers.

FRESHMAN ENGLISH PROGRAM

The Freshman English Program stresses competence in reading and writing. 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 student's writing competence. In preparation for success in high school and on state mandated tests, students 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 HONORS

SEMESTER I CRS H0001 GR 9 CR ½ S

Students entering English I Honors comprehend and analyze literary and informational texts at or above grade level, both independently and with teacher assistance; demonstrate evidence of independent reading above and beyond work assigned for class; analyze model essay samples; follow each stage of the writing process, beginning with brainstorming, thesis development, organization, drafting, editing, peer editing and revising, to write fully developed essays; maintain writing folders to show depth and development in their process; insightfully participate in class discussions, and create projects and presentations, demonstrating skill in the utilization of a variety of resources. Components of the first semester of English I Honors include tutorials on two-column note-taking, the creation of narrative writing, a unit on short stories, and the rigorous analysis of a contemporary novel. Students are expected to complete assignments at or above grade level.

ENGLISH I HONORS

SEMESTER II CRS H0001 GR 9 CR ½ S

Students enrolled in English I Honors, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skillset in other valuable ways. Specific components of the second semester of English I Honors include the analysis of a work of Shakespearean literature, a focus on persuasive writing, and an extended research paper on an independently chosen topic. Students are expected to complete assignments at or above grade level.

ENGLISH I COLLEGE PREP

SEMESTER I CRS H0003 GR 9 CR ½ S

Students enrolled in English I College Prep develop and reinforce skills of comprehension of literary and informational texts both independently and with teacher assistance; devote appropriate time to homework assignments and stay for after school help when necessary; follow each stage of the writing process, beginning with brainstorming, thesis development, organization, drafting, editing, peer editing and revising, to write fully developed essays; maintain writing folders to show development and improvement in their writing; and regularly participate in class discussions, projects and presentations, demonstrating skill in applying a variety of resources. Specific components of the first semester of English I College Prep include an essay based on a text from summer reading, extended tutorials on two-column note-taking, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. Students in college prep level classes are expected to complete assignments at grade level.

ENGLISH I CP

SEMESTER II CRS H0003 GR 9 CR ½ S

Students enrolled in English I College Prep, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skillset in other valuable ways. Specific components of the second semester of English I College Prep include the analysis of a work of Shakespearean literature, a focus on persuasive writing, and an extended research paper on an independently chosen topic. Students in college prep level classes are expected to complete assignments at grade level.

FUNDAMENTALS OF ENGLISH I**SEMESTER I CRS H8005 GR 9 CR ½ S**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. This course stresses competency in reading and effective written expression. Students read from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing revision, self-editing, proper grammatical structure, and the use of graphic organizers. *Guidance Approval Required*

FUNDAMENTALS OF ENGLISH I**SEMESTER II CRS H8005 GR 9 CR ½ S**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. Students enrolled in Semester II will enhance and refine the skills they acquired during Semester I as well as build upon that skillset in other valuable ways. This course stresses competency in reading and effective written expression. Students read from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing revision, self-editing, proper grammatical structure, and the use of graphic organizers. *Guidance Approval Required*

SOPHOMORE ENGLISH PROGRAM

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. Students will work with literature through text-based analytical discussions and will be given opportunities to showcase this through the development of their writing. Students 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.

FUNDAMENTALS OF ENGLISH II**SEMESTER I CRS H8007 GR 10 CR ½ S**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. This course stresses competency in reading and effective written expression. Students read material from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing the areas of revision, self-editing, proper grammatical structure, and the use of graphic organizers. *Guidance Approval Required*

FUNDAMENTALS OF ENGLISH II**SEMESTER II CRS H8007 GR 10 CR ½ S**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. Students enrolled in Semester II will enhance and refine the skills they acquired during Semester I as well as build upon that skillset in other valuable ways. This course stresses competency in reading and effective written expression. Students read material from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing the areas of revision, self-editing, proper grammatical structure, and the use of graphic organizers. *Guidance Approval Required*

ENGLISH II HONORS**SEMESTER I CRS H0009 GR 10 CR ½ S**

Students entering English II Honors, Semester I, read and write at or above grade level. Students will engage with a variety of texts in the four major literary genres (poetry, fiction, drama, and nonfiction). Students will develop the skills to analyze, compare and contrast characters and their development; explain the motives and ramifications of major conflicts; and interpret literary symbols. Students will learn how to utilize a variety of rhetorical techniques in their own compositions. Students will comprehend ELA standards, essential questions, and daily objectives. Students will develop an understanding of development, cohesion, conventions, and the use of language and style to improve upon their writing skills. Students will follow each stage of the writing process, beginning with brainstorming, thesis development, organization, drafting, editing, peer editing and revising, to write fully developed essays. Students will compose narrative, literary analysis, open response, and long composition essays. Students in honors level classes are expected to complete assignments at or above grade level.

ENGLISH II HONORS**SEMESTER II CRS H0009 GR 10 CR ½ S**

Students enrolled in English II Honors, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skillset in other valuable ways. Students will begin to focus on more sophisticated aspects of the writing process such as syntax, implementing figurative language and rhetorical devices, and integrating commentary from secondary sources. Students will independently engage with complex and demanding literary texts, both in class and independently, analyzing not only crucial elements of themes and plot but the structure and purpose of the texts. Students will learn about and practice specific and effective test-taking strategies. Students will compose argumentative/persuasive, literary analysis, open response, and long composition essays. Students in honors level classes are expected to complete assignments at or above grade level.

ENGLISH II CP**SEMESTER I CRS H0011 GR 10 CR ½ S**

Students enrolled in English II College Prep, Semester I, are expected to have passed English I. Students will engage with a variety of texts in the four major literary genres (poetry, fiction, drama, and nonfiction). Students will cultivate the skills to analyze character development, explain the significance of major conflicts, and derive the deeper meaning from literary symbols. Students will learn how to utilize a variety of rhetorical techniques in their own compositions. Students will comprehend ELA standards, essential questions, and daily objectives. Students will cultivate an understanding of development, cohesion, conventions, and the use of language and style to improve upon their writing skills. Students will follow each stage of the writing process, beginning with brainstorming, thesis development, organization, drafting, editing, and peer editing and revising, to write fully developed essays. Students will compose narrative, literary analysis, open response, and long composition essays. Students are expected to complete assignments at grade level.

ENGLISH II CP**SEMESTER II CRS H0011 GR 10 CR ½ S**

Students enrolled in English II College Prep, Semester II, will enhance and refine the skills acquired during semester one as well as build upon that skillset. Students will independently engage with complex and demanding literary texts, analyzing not only crucial elements of themes and plot but the structure and purpose of texts. Students will learn about and practice specific and effective test-taking strategies. Students will compose argumentative/persuasive, literary analysis, open response, and long composition essays. Students are expected to complete assignments at grade level.

JUNIOR ENGLISH PROGRAM

The Junior English Program focuses on the study of American literature. Students 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 student's writing competence.

ENGLISH LITERATURE & COMPOSITION AP**CRS H0031 GR 11-12 CR 1 Y**

AP Literature and Composition engages students 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, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes as well as the use of figurative language, imagery, symbolism, and tone. Students 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. Students 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. Students enrolling in this course are required to take the Advanced Placement Examination in Literature and Composition.

ENGLISH III HONORS**SEMESTER I CRS H0017 GR 11 CR ½ S**

Students enrolled in Honors English III will be introduced to themes in American Literature in Semester A. Students will be introduced to various works of fiction, non-fiction and poetry that portray the early American experience. Students will follow each stage of the writing process, beginning with brainstorming, thesis development, organization, drafting, editing, and peer editing and revising, to write fully developed essays. Using this process, students will produce a narrative, as well as a character analysis. Students will be able to speak before an audience using appropriate vocabulary to communicate with order and logic. Independent work is highly emphasized and opportunities for enrichment and extension of learning are provided. Students will collaborate with peers and work at a consistent pace. Students in honors level classes are expected to complete assignments at or above grade level.

ENGLISH III HONORS**SEMESTER II CRS H0017 GR 11 CR ½ S**

Students enrolled in English III Honors, Semester B, will enhance and refine the skills they acquired during semester one as well as build upon that skillset in other valuable ways. Students enrolled in Honors English III will continue their exploration of themes in American Literature in Semester B through examination of novels, plays, poetry, and short stories. Students will practice proper research techniques, including evaluation and citation of sources, and compose a persuasive essay, utilizing a variety of sources. Students will be able to speak before an audience using appropriate vocabulary to communicate with order and logic. Independent work is highly emphasized and opportunities for enrichment and extension of learning are provided. Students will collaborate with their peers and work at a consistent pace. Students in honors level classes are expected to complete assignments at or above grade level.

ENGLISH III CP**SEMESTER I CRS H0019 GR 11 CR ½ S**

Students enrolled in English III College Prep will be introduced to themes in American Literature in Semester A. The course will begin with a literary analysis essay based on a summer reading novel. Students will then be introduced to various works of fiction, non-fiction and poetry that portray the early American experience. Students will write fully developed analytical essays that follow each stage of the writing process, beginning with brainstorming, thesis development, organization, drafting, editing, peer editing and revising. Using this process, students will produce a narrative, as well as a character analysis. Students will be able to speak before an audience using appropriate vocabulary to communicate with order and logic. The course includes independent work and students will work cooperatively, complete homework assignments, and work at a consistent pace. Students are expected to complete assignments at grade level.

ENGLISH III CP **SEMESTER II** **CRS H0019** **GR 11** **CR ½** **S**

Students enrolled in English III College Prep, Semester B, will enhance and refine the skills they acquired during semester one as well as build upon that skillset in other valuable ways. Students will continue to study themes in American Literature in Semester B. The course will examine novels, plays, and collections of short stories. Students will conduct research on a topic of choice and will compose an essay of considerable length that incorporates their research and demonstrates their rhetorical skills and writing capabilities. Students will be able to speak before an audience using appropriate vocabulary to communicate with order and logic. The course includes independent work and students will work cooperatively, complete homework assignments, and work at a consistent pace. Students are expected to complete assignments at grade level.

FUNDAMENTALS OF ENGLISH III **SEMESTER I** **CRS H8009** **GR 11** **CR ½** **S**

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. This course stresses competency in reading and effective written expression. Students read from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing the areas of revision, self-editing, proper grammatical structure, and the use of graphic organizers. **Guidance Approval Required**

FUNDAMENTALS OF ENGLISH III **SEMESTER II** **CRS H8009** **GR 11** **CR ½** **S**

Students enrolled in Semester II will enhance and refine the skills they acquired during Semester I as well as build upon that skillset in other valuable ways. This course stresses competency in reading and effective written expression. Students read from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing the areas of revision, self-editing, proper grammatical structure, and the use of graphic organizers. **Guidance Approval Required**

ENGLISH COMPOSITION I **CRS H0026^{EC}** **GR 11** **CR 1** **S**
DUAL ENROLLMENT - NECC

This is a required course for juniors in the Dual Enrollment program that will develop critical thinking and clear, effective writing skills. Students will demonstrate their competence through a variety of writing assignments including essays and a research paper. Successful completion of a research paper is required to pass this course. **Prerequisite: Accuplacer Testing**

- **There is a cost associated with class. This class is taught at NECC.**

SENIOR ENGLISH PROGRAM

The Senior English Program focuses on the study of British literature. Students 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 student's writing competence. All seniors are required to demonstrate their mastery of language arts skills by completing an exit portfolio as a final performance assessment and graduation requirement for English.

ENGLISH LANGUAGE & COMPOSITION AP **CRS H0023** **GR 11-12** **CR 1** **Y**

The Advanced Placement course in English Language & Composition engages students to aspire to be informed citizens. The course is designed to encourage students to become skilled readers of prose written in a variety of periods, disciplines and rhetorical contexts, and skilled writers who compose for a variety of purposes. Students generate ideas, then develop, revise, and edit their writing in successive drafts. AP Language & Composition students become a community of learners who contribute in meaningful ways to the daily discourse of the classroom. Extensive writing, reading, and speaking opportunities allow students to gain awareness of the interactions between a writer's purpose and audience expectations and to understand how the resources of language contribute to effective communication. Emphasis is placed on non-fiction reading. Students enrolling in this course are required to take the Advanced Placement Examination in English Language and Composition and to create an exit portfolio.

ENGLISH IV HONORS **SEMESTER I** **CRS H0025** **GR 12** **CR ½** **S**

Students will be introduced to themes and important works in British Literature. Through an exploration of fiction, non-fiction and poetry, students will be expected to make meaningful connections through reflections on their reading. They will write fully developed, thesis-driven analytical essays incorporating textual evidence, and proper use of conventions. Students will engage in peer and self-evaluations as a required part of the writing process. Students will also conduct research, write creatively, and present their work to their peers. Independent work is highly emphasized and students must be prepared to work both cooperatively and independently, devote appropriate time to their assignments, and work at an accelerated pace. Students in honors level classes are expected to complete assignments at or above grade level.

ENGLISH IV HONORS **SEMESTER II** **CRS H0025** **GR 12** **CR ½** **S**

Students enrolled in English IV Honors, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skillset in other valuable ways. Students will continue exploring themes in British Literature, such as those found in Shakespeare, as well as other important works in the British tradition. They will write fully developed, thesis-driven analytical essays incorporating textual evidence, and proper use of conventions. Students will also conduct research, write creatively, and present work.

Students will engage in peer and self-evaluations as a required part of the writing process. Students are expected to compile their writing and reflect on it in order to produce senior exit portfolios. Independent work is highly emphasized and students must be prepared to work both cooperatively and independently, devote appropriate time to their assignments, and work at an accelerated pace. Students in honors level classes are expected to complete assignments at or above grade level.

FUNDAMENTALS OF ENGLISH IV SEMESTER I CRS 8004 GR 12 CR ½ S

Instruction is based on the Massachusetts Frameworks and mirrors the general education English Program of Studies. This course stresses competency in reading and effective written expression. Students read from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing the areas of revision, self-editing, proper grammatical structure, and the use of graphic organizers. *Guidance Approval Required*

FUNDAMENTALS OF ENGLISH IV SEMESTER II CRS 8004 GR 12 CR ½ S

Students enrolled in Semester II will enhance and refine the skills they acquired during Semester I as well as build upon that skillset in other valuable ways. This course stresses competency in reading and effective written expression. Students read from a variety of genres in literature, develop study and organizational skills, and write a variety of open responses and essays. In addition to experiencing the general curriculum, students receive specialized reading instruction in the areas of comprehension and basic reading skills. Process writing instruction is utilized, emphasizing the areas of revision, self-editing, proper grammatical structure, and the use of graphic organizers. *Guidance Approval Required*

ENGLISH COMPOSITION II DUAL ENROLLMENT - NECC CRS H0030_{EC} GR 12 CR 1 S

This is a required course for seniors in the Dual Enrollment program with emphasis on analysis and argumentation. Texts and materials, primarily drawn from literature, will vary from section to section and will be employed as the basis for a range of essays. *Prerequisite: Dual Enrollment NECC*

ENGLISH ELECTIVES

WRITTEN EXPRESSION IN THE 21ST CENTURY CRS H0033 GR 11-12 CR ½ S

This class is designed as a workshop to provide students with the opportunity to study and write short stories, poetry, creative nonfiction, and scripts. Teacher-student conferences and peer conferences will be held frequently to help students strengthen their writing skills and their confidence. Students will contract to take the course for honors or college prep credit. Additional reading and writing are required for honors credit. *Prerequisite: completion of 10th grade English.*

PUBLIC SPEAKING CRS H0035 GR 9-12 CR ½ S

This course is designed to develop and strengthen the skills of speaking, listening, and writing. Students will improve these skills by preparing and delivering a variety of speeches for different audiences and purposes, participating in small group and panel discussions, and evaluating professional speeches and those of their peers. *Prerequisite: Completion of 9th grade English. Seniors will be given first priority; juniors will be given second priority; and sophomores third priority. Public Speaking is mandatory for students starting in the 2019 graduating class and elective for the Class of 2018.*

JOURNALISM SEMESTER I CRS H0037 GR 10-12 CR ½ S

This course focuses on journalistic writing in its many forms. Students 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, students will develop their reporting, narrative, and research skills while also enhancing their awareness of both local and global issues. Students enrolled in the course will staff and assume all responsibilities of the school newspaper, *The Brown and Gold*, meeting strict publication deadlines. Students will produce print and digital issues during the course of the school year. *✓ School to Career requirement option.*

JOURNALISM SEMESTER II CRS H0037 GR 10-12 CR ½ S

This course focuses on journalistic writing in its many forms. Students 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, students will develop their reporting, narrative, and research skills while also enhancing their awareness of both local and global issues. Students enrolled in the course will staff and assume all responsibilities of the school newspaper, *The Brown and Gold*, meeting strict publication deadlines. Students will produce print and digital issues during the course of the school year. *✓ School to Career requirement option.*

WRITERS' EXPRESS: AN APPRENTICESHIP FOR PEER COACHING CRS H0040 GR 12 CR ½ S

This elective class is for seniors only who have taken AP or Honors English and who embrace the writing process and have a passion to assist students who may need writing support. The course includes a classroom foundational experience devoted to both the learning about

and practice with techniques for the coaching of writing, as well as opportunities to apply learned techniques through assisting students in various classrooms. ✓ *School to Career requirement option.*

IDENTITY IN LITERATURE

CRS H0065 GR 10-12 CR ½ S

Students enrolled in Identity in Literature will read from a selection of diverse young adult novels cataloguing the unique trials faced by teenagers as they come of age. Authors include A.S. King, M.T. Anderson, Sherman Alexie, Julie Anne Peters, and Meg Medina, among others. Particular attention will be paid to how characters face the challenges of developing identity in terms of gender, race, sexuality, socialization, and family. In concert with their reading, students will develop writing skills, including thesis development, incorporation of evidence, analysis, and organization.

LATIN IDENTITY IN LITERATURE

CRS H0066 GR 10-12 CR ½ S

This course will be concerned with exploring what it means to be Latino in the United States. Through reading works by Latino authors such as Sandra Cisneros, students will discuss and write about cultural and individual identities. In addition, they will explore themes related to ideas of home, self and community. In an attempt to understand their own identities, students will be expected to make connections between the texts and themselves and connections with other texts.

WORLD LITERATURE

CRS H0067 GR 10-12 CR ½ S

As the name suggests, this course will be concerned with the promotion of the understanding of cross-cultural literature. Students will be exposed to and will explore works by diverse authors including Nigeria’s Chinua Achebe. While considering the cultural and historical contexts of the different works, students will also examine how authors use language to achieve specific purposes. In addition, they will explore ideas such as cultural stereotypes and otherness.

THE ROLE OF DRAMA IN LITERATURE

CRS H0068 GR 10-12 CR ½ S

This course gives students the opportunity to explore the nature of drama as literature. Students will uncover the history and structure of drama from Greek theater in 6th century BC to modern day, the fundamentals of acting, improvisation, character development, scene study, and selected plays. Students will learn the strategies of playwrights to develop the ability to imagine the play in performance and to recognize the range of drama’s possibilities. This course will answer such essential questions as: How has drama reflected the lives of people in the past? How does culture affect drama through history? How does drama bridge cultural diversity? What do modern forms of drama reveal about today’s society? What role does drama play in the community? Plays from Sophocles, Christopher Marlowe, William Wycherley, Oscar Wilde, Henrik Ibsen, and Dale Wasserman will be included.

SCIENCE FICTION/FANTASY

CRS H0069 GR 10-12 CR ½ S

This course gives students the opportunity to explore a body of science fiction and fantasy literature. The science fiction literature will include works by acclaimed authors including Ray Bradbury, H.G. Wells, and Hugh Howey. Fantasy literary selections include works by noted authors including Kafka, Dostoyevsky, and F. Scott Fitzgerald. Thematic units to be explored include the role of heroism, the universality of the human condition, critiques of the values of man, and the potential loss of humanity in a world dominated by technology. This course will answer such essential questions as: What is fantasy genre? How do the fantasy world and the reality world overlap? What is the role of science fiction in our society? What message might the author be presenting about modern day society? What images and themes are commonly repeated in fantasy and science fiction? Students will read selections, combined with short films individually and as a class. Afterwards, students will respond through writing, group discussions, blogging, and individual and group projects.

CENSORSHIP IN LITERATURE

CRS H0073 GR 10-12 CR ½ S

This course will explore censorship and the works of literature that have been banned. Over fifty percent of books banned in the 21st century have addressed issues of race, sexuality, or disability; the diverse voices of those excluded and silenced will be heard and advocated for in this class.

FUTURISTIC SOCIETIES

CRS H0070 GR 10-12 CR ½ S

What would happen if the issues in our society were intensified in the future? In this course, we will study dystopian literature and film clips that examine issues such as technological dependency, environmental decline, and governmental control. Possible texts include Diane Cook’s “Moving On,” MT Anderson’s Feed, and Wall-E.

SPORTS WRITING AND LITERATURE

CRS H0049 GR 10-12 CR ½ S

Students enrolling in this course will examine the relationship between sports culture and society in the 21st century through literature. The selected readings will promote class discussions, as well as allow for rich and authentic writing assignments. Students will engage with a variety of texts (informational, biographical, poetry, and modern forms) dealing exclusively with the realm of sports in the United States and across the world. In addition to the development of reading and writing skills, students will engage in collaborative projects, analyze current events, and will be exposed to the profession of Sports Journalism.

POETRY AND LYRICS IN HISTORICAL AND SOCIAL CONTEXTS

CRS H0071 GR 10-12 CR ½ S

This course will explore the power and beauty of language in poetry and song, both ancient and modern. Students will engage with a vast array of lyrical works, analyzing the social relevance, emotional impact, and the structure of poems composed before the written word all

the way up to songs written by contemporary musicians such as J. Cole, Beyonce, Bob Dylan, and The Lumineers. The course will focus on the role poetry has played over the course of history and examine relationships among the form and content of poems from the past and present and across different cultures. By the end of the course, students will cultivate a working understanding of poetry's significance in diverse times and places and especially in our own society.

21ST CENTURY LITERATURE

CRS H0072 GR 10-12 CR ½ S

This course will feature works of poetry, fiction, non-fiction, and drama written since the year 2000.

HISTORY

The study of history and the social sciences is vital in a democratic society. All students 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 students to place the people, ideas and events that have shaped our state and our nation in perspective; (2) enable students to understand the basic values, principles and operations of American constitutional democracy; (3) prepare students for informed and responsible citizenship; (4) develop students' skills in debate, discussion and writing; and (5) provide students with a framework for continuing education in history and social sciences.

WORLD HISTORY I HONORS

SEMESTER I CRS H1101 GR 9 CR ½ S

Greek and Roman civilizations open our survey of early World History. Students will learn the skills of a historian as we conduct a comparative study of the great world religions. Students will understand the similarities and differences amongst the great civilizations in Africa, the Middle East, India, and China to conclude the course. **Prerequisite: A Grade of B- or better in 8th Grade History and recommendation of teacher.**

WORLD HISTORY I HONORS

SEMESTER II CRS H1101 GR 9 CR ½ S

Students will learn the basis for the rise of the modern world in Europe in this course. We begin with an exploration of the Middle Ages in Europe and the Eastern Roman Empire (Byzantine Empire). From there the course moves into the European Renaissance, Reformation, Exploration and Scientific Revolutions. The course then teaches Native Mesoamericans and Native North and South American civilizations and the impact of European contact. The course finishes with the European Enlightenment and its impact on modern society. **Prerequisite: A Grade of B- or better in 8th Grade History and recommendation of teacher.**

WORLD HISTORY I CP

SEMESTER I CRS H1103 GR 9 CR ½ S

Greek and Roman civilizations open our survey of early World History. Students will learn the skills of a historian as we conduct a comparative study of the great world religions. Students will understand the similarities and differences amongst the great civilizations in Africa, the Middle East, India, and China to conclude the course.

WORLD HISTORY I CP

SEMESTER II CRS H1103 GR 9 CR ½ S

Students will learn the basis for the rise of the modern world in Europe in this course. We begin with an exploration of the Middle Ages in Europe and the Eastern Roman Empire (Byzantine Empire). From there the course moves into the European Renaissance, Reformation, Exploration and Scientific Revolutions. The course then teaches Native Mesoamericans and Native North and South American civilizations and the impact of European contact. The course finishes with the European Enlightenment and its impact on modern society.

ELE WORLD HISTORY I CP

SEMESTER I CRS H1108 GR 9-10 CR ½ S

This content/ELE course is designed to parallel the freshman course in the area of world history, from ancient times to the Industrial Revolution. The students will review skills in geography to understand historical, social and economic development. Units will include: the first civilizations of the world, emergence of the modern world, democracy and nationalism in Europe and the Industrial Revolution. The completion of this course satisfies one of the three credits required in the area of social studies. 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.

ELE WORLD HISTORY I CP

SEMESTER II CRS H1108 GR 9-10 CR ½ S

Students enrolled in ELE World History I College Prep, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This content/ELE course is designed to parallel the freshman course in the area of world history, from ancient times to the Industrial Revolution. The students will review skills in geography to understand historical, social and economic development. Units will include: the first civilizations of the world, emergence of the modern world, democracy and nationalism in Europe and the Industrial Revolution. The completion of this course satisfies one of the three credits required in the area of social studies. 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.

FUNDAMENTALS OF WORLD HISTORY I SEMESTER CRS H8121 GR 9 CR 1 Y

Instruction is based on MA Frameworks and parallels the general education program of studies in History. Students will study the history of the Western and Non-Western world. Students are expected to develop knowledge and skills of history, geography, civics, economics, and responsible citizenship. **Guidance Approval Required**

WORLD HISTORY II HONORS SEMESTER I CRS H1109 GR 10 CR ½ S

This course begins where World History I ends by starting 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 20th century. The impact of the Industrial Revolution and Western imperialism is viewed from various perspectives. Students will focus on the impacts of World War I, the Great Depression, rise of dictatorship, and World War II through a global lens. The departmental mid-term is given in January for this course. *This course is a required course taken during the sophomore year. Prerequisite: Grade of B- or better in World History CP and recommendation of teacher or passing grade in World History I Honors.*

WORLD HISTORY II HONORS SEMESTER II CRS H1109 GR 10 CR ½ S

The course continues with the study of WWII and traces the rise of the communism and the downfall of communism during the Cold War. Students 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. Students will see the impact of economic growth and the emergence of a global economy on our ever “shrinking” world. The course culminates by giving students a broader view of the modern world in the post-Berlin Wall and post 9-11 era. *This course is a required course taken during the sophomore year. The History Department Final is given in June for this course. Prerequisite: Grade of B- or better in World History and recommendation of teacher or passing grade in World History I Honors.*

WORLD HISTORY II CP SEMESTER I CRS H1111 GR 10 CR ½ S

This course begins where World History I ends by starting 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 20th century. The impact of the Industrial Revolution and Western imperialism is viewed from various perspectives. Students will focus on the impacts of World War I, the Great Depression, rise of dictatorship, and World War II through a global lens. *The departmental mid-term is given in January for this course. This course is a required course taken during the sophomore year.*

WORLD HISTORY II CP SEMESTER II CRS H1111 GR 10 CR ½ S

The course continues with the study of WWII and traces the rise of the communism and the downfall of communism during the Cold War. Students 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. Students will see the impact of economic growth and the emergence of a global economy on our ever “shrinking” world. The course culminates by giving students a broader view of the modern world in the post-Berlin Wall and post 9-11 era. *The History Department Final is given in June for this course. This course is a required course taken during the sophomore year.*

ELE WORLD HISTORY II CP SEMESTER I CRS H1114 GR 10-12 CR ½ S

This is a continuation of ELE World History I. The units of the course: imperialism and colonization, war, revolution and efforts for peace in the 20th century, economic, technological and cultural changes in the modern world. The completion of this course satisfies one of the three credits required in the area of social studies. 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. **Prerequisite: Passing grade in ELE World History I.**

ELE WORLD HISTORY II CP SEMESTER II CRS H1114 GR 10-12 CR ½ S

Students enrolled in ELE World History II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This is a continuation of ELE World History I. The units of the course: imperialism and colonization, war, revolution and efforts for peace in the 20th century, economic, technological and cultural changes in the modern world. The completion of this course satisfies one of the three credits required in the area of social studies. 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. **Prerequisite: Passing grade in ELE World History I.**

FUNDAMENTALS OF WORLD HISTORY II CRS H8123 GR 10 CR 1 Y

Instruction is based on MA Frameworks and parallels the general education program of studies in History. Students will study the history of the Western and Non-Western world. Students are expected to develop knowledge and skills of history, geography, civics, economics, and responsible citizenship. **Guidance Approval Required**

EUROPEAN HISTORY AP**CRS H1110 GR 10-12 CR 1 Y**

The course in European History is designed to provide students with the intellectual-cultural, political-diplomatic, and social-economic history of Europe beginning about 1450. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses. Students selecting AP European History must take the Advance Placement Examination in European History, for which college credit may be awarded. **Prerequisite: Grade of B- or better in World History I Honors or B+ in World History I and recommendation of teacher.**

U.S. HISTORY 1890-1945 HONORS**SEMESTER I CRS H1117 GR 11 CR ½ S**

This survey course begins with the Imperialism Era and journeys through the story of 20th century America through the end of World War II. The students will learn about major events that include the Progressive Era, the Roaring 20's, the Great Depression, World War I and II. *This course is required for graduation and can be taken during the junior or senior year. Prerequisite: Grade of B- or better in World History II CP or passing grade in World History II Honors and receive the recommendation of his/her teacher.*

U.S. HISTORY 1846-PRESENT HONORS**SEMESTER II CRS H1117 GR 11 CR ½ S**

This survey course begins with the Cold War through to the present day. Students will learn about major events that include the Civil Rights Movement, the Vietnam and Korean Wars, the Reagan Era, the 90's and the early 21st century. *This course is required for graduation and can be taken during the junior or senior 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.*

U.S. HISTORY 1890-1945 CP**SEMESTER I CRS H1119 GR 11 CR ½ S**

This survey course begins with the Imperialism Era and journeys through the story of 20th century America through the end of World War II. The students will learn about major events that include the Progressive Era, the Roaring 20's, the Great Depression, World War I and II. *This course is required for graduation and can be taken during the junior or senior year.*

U.S. HISTORY 1846-PRESENT CP**SEMESTER II CRS H1119 GR 11 CR ½ S**

This survey course begins with the Cold War through to the present day. Students will learn about major events that include the Civil Rights Movement, the Vietnam and Korean Wars, the Reagan Era, the 90's and the early 21st century. *This course is required for graduation and can be taken during the junior or senior year.*

ELE U.S. HISTORY II CP**SEMESTER I CRS H1122 GR 11-12 CR ½ S**

This course is geared to the student who must take US History to graduate, but has demonstrated a limited English proficiency in content material. A review of major historical issues and social studies skills will be covered. Students qualifying for entrance into College Preparatory Modern U.S. History will be expected to: (1) cover the material contained in the Massachusetts Framework; (2) use many different materials, mostly print; (3) write essays and short papers; (4) write research paper(s); (5) devote adequate time to their homework assignments; (6) make class presentations and; (7) work on those academic skills that will be necessary for success in college. **Prerequisite: Grade of C or better in History 2 and recommendation of teacher.**

ELE U.S. HISTORY II CP**SEMESTER II CRS H1122 GR 11-12 CR ½ S**

Students enrolled in ELE U.S. History II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course is geared to the student who must take US History to graduate, but has demonstrated a limited English proficiency in content material. A review of major historical issues and social studies skills will be covered. Students qualifying for entrance into College Preparatory Modern U.S. History will be expected to: (1) cover the material contained in the Massachusetts Framework; (2) use many different materials, mostly print; (3) write essays and short papers; (4) write research paper(s); (5) devote adequate time to their homework assignments; (6) make class presentations and; (7) work on those academic skills that will be necessary for success in college. **Prerequisite: Grade of C or better in History 2 and recommendation of teacher.**

U.S. HISTORY II**DUAL ENROLLMENT - NECC****CRS H1122_{EC} GR 11 CR 1 S**

This course is a survey of American history from 1865 to the present. It will examine the continuing political, social, cultural and economic development of the United States from reconstruction through the Second World War and the postwar years. Emphasis will be placed on the increasing power of the Presidency, the role of America as a world leader, industrial and technological growth and its impact on the environment. **Prerequisite: Dual Enrollment NECC**

FUNDAMENTALS OF U.S. HISTORY II**CRS H8125 GR 11 CR 1 Y**

Instruction is based on MA Frameworks and parallels the general education program of studies in History. Students will study the history of the 20th century to the present of the United States. Students are expected to develop knowledge and skills of history, geography, civics, economics, and responsible citizenship. **Guidance Approval Required**

U.S. HISTORY AP**CRS H1115 GR 11 CR 1 Y**

The course in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and issues connected with American History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses. Students will learn to assess historic materials - their relevance to a given interpretive problem, their reliability and their importance - and to weigh the evidence and

interpretations presented in historical scholarship. The American History course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Students 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 teacher.**

HISTORY ELECTIVES

HISTORY OF THE CITY OF HAVERHILL **CRS H1125 GR 9-12 CR ½ S**
 Haverhill was settled in 1640, Bradford in 1639. In 1897, they became one. Students will use a variety of sources to explore the fascinating story of the growth and development of the city of Haverhill. Students may visit sites they study, and will do original research in areas of particular interest. **Prerequisite: Successful completion of, or concurrent registration in a core History class.**

PSYCHOLOGY **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 students working at all levels can find success in this class. **Prerequisite: Successful completion of, or concurrent registration in a core History class.**

PSYCHOLOGY DUAL ENROLLMENT - NECC **CRS H1127^{EC} GR 12 CR 1 S**
 This course includes a survey of major topics and theorists in the field. The student will focus primarily on normal developmental trends and patterns while exploring the social, emotional, motivational, sensory and cognitive realms of behavior. In particular, the student may read and discuss material pertaining to the theories of Maslow, Freud, Piaget, Erikson, and Skinner among others. **Prerequisite: Dual Enrollment NECC.**

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: Students are required to have successfully completed their previous year's English and their core History class with a B- or better.**

U.S. GOVERNMENT AND POLITICS AP **CRS H1200 GR 11-12 CR 1 Y**
 U.S. Government and Politics is designed to give students 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.**

CONSTITUTIONAL LAW HONORS SEMESTER I **CRS H1134 GR 11-12 CR ½ S**
 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 Constitutional itself. From there the course will examine the constitutionality of a number of laws and government policies through case studies. We will begin with cases dealing with First Amendment issues Freedom of Speech, Freedom of Religion, and Freedom of the Press. We will also study Fourth Amendment rights such as Freedom from illegal Searches and Seizures by the government.

CONSTITUTIONAL LAW HONORS SEMESTER II **CRS H1134 GR 11-12 CR ½ S**
 In the second part of Constitutional Law we will continue the study of the US Constitution. During this part of the course we will study cases that deal with the Eighth Amendment, Freedom from Cruel and Unusual Punishment. We will also study the Equal Protection clause of the Fourteenth Amendment. Other constitutional issues that are important debates in current events will also be examined. In the later part of the course we will study criminal law, and how it is applied by the various states in our country.

CONSTITUTIONAL LAW CP SEMESTER I **CRS H1133 GR 11-12 CR ½ S**
 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 Constitutional itself. From there the course will examine the constitutionality of a number of laws and government policies through case studies. We will begin with cases dealing with First Amendment issues Freedom of Speech, Freedom of Religion, and Freedom of the Press. We will also study Fourth Amendment rights such as Freedom from illegal Searches and Seizures by the government.

CONSTITUTIONAL LAW CP SEMESTER II **CRS H1133 GR 11-12 CR ½ S**
 In the second part of Constitutional Law we will continue the study of the US Constitution. During this part of the course we will study

cases that deal with the Eighth Amendment, Freedom from Cruel and Unusual Punishment. We will also study the Equal Protection clause of the Fourteenth Amendment. Other constitutional issues that are important debates in current events will also be examined. In the later part of the course we will study criminal law, and how it is applied by the various states in our country.

INTERNATIONAL RELATIONS CP

CRS H1135 GR 10-12 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 students to learn. Key elements of the course include: (1) political, social and economic world issues; (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; (7) having students objectively assess views contrary to their own. By role-playing the part of various world diplomats at the end of the course, students will enter into "controlled competition" with other schools in a format similar to that used at the United Nations. *Prerequisite: Students must be in or have successfully completed their History requirement and prior discussion with the course instructor.*

INTERNATIONAL RELATIONS HONORS

CRS H1139 GR 10-12 CR ½ S

The International Relations course is also offered as an Honors elective. In order to earn Honors credit for the course, the student must fulfill the following additional requirements:

1. Write weekly International Event Summaries.
2. Work as peer editors on Position Papers during our Mock Model UN section.
3. Have homework that will be more substantial.
4. Become leaders in peer group projects. The finals/midterm projects will be student lead by the Honors students.
5. Have an increased responsibility on the final project. The final/midterm projects will be have a written component that will be longer for the Honors student.

PHILOSOPHY

CRS H1136 GR 10-12 CR ½ S

In this course, students 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, students will also apply some of the answers to ethical issues of a contemporary nature. Students who elect this course should have a strong commitment to reading primary sources, engaging in non-argumentative discussion, preparing insightful essays, and an understanding that your conclusions are only as good as your arguments. Enrollment in this course will receive Honors credit.

CONTEMPORARY ISSUES

CRS H1141 GR 11-12 CR ½ S

Contemporary Issues will introduce students to topics that influence our life in this global, multicultural society. Students will research current economic, political, social, and cultural problems, and explore how ongoing conflicts affect our world. Students will be encouraged to make interdisciplinary connections between their past curriculum course of studies and the ongoing issues of today. Strong emphasis will be placed on critical thinking, speaking and listening skills, which will be reinforced through class discussions and oral presentations. The use of a variety of technologies and media is integrated throughout the curriculum.

NETWORKING IN THE 21ST CENTURY

CRS H1149 GR 11-12 CR ½ S

Students will learn how to use the major new tools in social media to reach personal and professional goals. The course will focus on past and present use of media in schools, the work force and everyday life. In addition, the course will speak to many forms of networking in society as it pertains to developing contacts, and business and social etiquette. This class will consist of collaborative work, group discussions, explorations and projects designed by the class. Throughout the course, students will learn the legality and future implications of their actions on social media websites and in the social and business world. Upon completion of the course, students should become informed digital citizens of the 21st century.

CHILD PSYCHOLOGY I

CRS H1645 GR 10-12 CR ½ S

In this course, students will explore the development of children from the pre-natal stage through the toddler stage, with emphasis on social/emotional and intellectual development. Students will be expected to read, analyze, discuss, problem solve, think critically, and work in groups to expand their working knowledge of children and how it may be applied to careers or personal life.

CHILD PSYCHOLOGY II

CRS H1647 GR 11-12 CR ½ S

In this course, students will explore the development of children from the pre-school through the adolescence, with emphasis on social/emotional and intellectual development. Students will be expected to read, analyze, discuss, problem solve, think critically, and work in groups to expand their working knowledge of children and how it may be applied to careers or personal life. *Prerequisite: Must successfully complete Child Psychology I.*

SOCIOLOGY

CRS H1641 GR 10-12 CR ½ S

In this course, students 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. Students 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. Students will conduct research and report on their findings.

THE HOLOCAUST AND CRIMES AGAINST HUMANITIES

CRS H1140 GR 10-12 CR ½ S

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, students will investigate records from survivors, nations, institutions, museums, popular culture, media, and historians who have constructed a history of the Holocaust.

CIVICS

CRS H1153 GR 9-12 CR ½ S

This course will teach and encourage students 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.

WOMEN'S AND GENDER STUDIES

CRS H9610 GR 11-12 CR ½ S

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. Students 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. (11-12)

THE CONTEMPORARY MIDDLE EAST

CRS H9611 GR 9-12 CR ½ S

This course will focus on the religious, social, geographical, cultural, and political aspects associated with the Middle East region of the world. Emphasis will be put on the sources of conflict, the Islamic religion, and what it means to be an Arab. We will also cover the historical background of the Middle East from its modern creation in the early twentieth century up until present day. The course will also focus on current events in the Middle East and how they affect our lives. (11-12)

A CLASSICAL PERSPECTIVE – LITERATURE

CRS H9600 GR 9 CR ½ S

After an introduction to Hellenistic culture and its influences on the development of western art and thought, students will enter into a detailed study of the *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. Students 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 students as they progress through the program. ***This course is a graduation requirement for the Classical Academy***

CLASSICAL PHILOSOPHY IN THE 21ST CENTURY

CRS H9602 GR 10-12 CR ½ S

Classical Philosophy in the 21st Century is a semester-long course that focuses on developing critical thinking skills and producing strong, research-based arguments. The course illuminates age-old philosophical problems by broaching contemporary topics and events. Our study begins as a discussion about the origins of society facilitated through readings by Aristotle, Hobbes, Locke, Faulkner, and Martin Luther King, Jr., culminating with David Malouf's *An Imaginary Life*. Then we explore topics as varied as global poverty and philanthropy, animal rights, doctor-assisted suicide, the American criminal justice system, and more. ***This course has evolved from the Research Seminar course.***

SENIOR SEMINAR

CRS H1145 GR 12 CR ½ S

Seniors design, create, and produce a project about a topic of their choosing. Topic choice is guided by a subject in which the student has an interest, but has not had an opportunity to study during high school. The eighty-hour research project culminates with a presentation to a panel of judges consisting of teachers and members of the community. Whenever possible, students are assigned a mentor to work with them on a weekly basis to insure understanding and share expertise. The course is intended to demonstrate autonomy in the production of original work, provide an opportunity for creative self-expression, encourage independent problem-solving, promote 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.***

MATHEMATICS

Haverhill High School offers a full array of courses in mathematics and computer programming. Whether a student is planning to attend college or move into the workplace, a sound mathematical background is necessary. All students 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 students 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 focuses 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 students achieve mathematical competence through a strong program that emphasizes reasoning, communication skills, problem solving, making connections, and technological literacy.

All students are encouraged to purchase a TI 83 or TI 84 graphing calculator for use in their mathematics classes. 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 students to participate in academically challenging courses that will better prepare them for college and 21st century careers.

MATHEMATICS SUPPORT

CRS H2200 GR 9 CR ½ S

This is an elective course for 9th grade Algebra I CP students who require additional math support. Students will take a diagnostic test that will allow instructors to target appropriate topics, strategies, and techniques for individual students. The objective of this course is to help students fill gaps in mathematical concepts in order to successfully complete Algebra I and future math courses. Passing students earn graduation credit, but no mathematics credit. **Note: Students enrolled in Foundations of Algebra are not eligible for this course.**

MATHEMATICS SUPPORT

CRS H9616 GR 10 CR ½ S

This is an elective course for 10th grade Geometry CP students who require additional math support. Students will take a diagnostic test that will allow instructors to target appropriate topics, strategies, and techniques for individual students. The objective of this course is to help students fill gaps in mathematical concepts in order to successfully complete Geometry and to prepare for MCAS. Passing students earn graduation credit, but no mathematics credit. **Prerequisite: Passing grade in Algebra I, and recommendation of teacher.**

FOUNDATIONS OF ALGEBRA

SEMESTER I CRS H2201 GR 9 CR ½ S

This course is taken concurrently with Algebra I College Prep A, as a double math block, and is intended to provide support in foundational knowledge and skills. Placement in this course will be determined by grade 8 diagnostic testing, warning scores on MCAS, low MAP assessment scores, and overall middle school math achievement. In addition to reviewing necessary pre-algebra skills and concepts, critical instructional areas will include formulating and reasoning about expressions and equations, solving linear equations and systems of linear equations, and grasping the concept of function. Students will work individually and in small groups to fill gaps in mathematical concepts, to prepare for MCAS, and to fully comprehend Algebra I. Passing students earn graduation credit, but no mathematics credit.

FOUNDATIONS OF ALGEBRA

SEMESTER II CRS H2201 GR 9 CR ½ S

This course is the continuation of Foundations of Algebra, and is intended to provide ongoing support in foundational knowledge and skills.

ALGEBRA I HONORS

SEMESTER I CRS H2207 GR 9 CR ½ S

This in-depth and comprehensive course follows the common core standards for Algebra I 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. The course includes a focus on functions and applications. Part A covers up to Linear Systems. A TI-83 or TI-84 graphing calculator is recommended. **Prerequisites: Grade of B or better in a grade 8 Algebra I, or A- or better in grade 8 mathematics course, and proficient or above scores on MCAS and MAP testing, and recommendation of mathematics teacher.**

ALGEBRA I HONORS

SEMESTER II CRS H2207 GR 9 CR ½ S

This is the continuation of Honors Algebra 1. The course follows the common core standards for Algebra 1 and integrates the Standards for Mathematical Practice. Topics covered: systems of linear equations, exponential functions, operations with functions, and data analysis and absolute value functions. The course includes a focus on functions and applications. A TI-83 or TI-84 graphing calculator is recommended.

ALGEBRA I CP

SEMESTER I CRS H2209 GR 9 CR ½ S

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 absolute value functions. The course includes a focus on functions and applications. Part A covers up to Linear Systems. A TI-83 or TI-84 graphing calculator is recommended.

Prerequisites: Grade of C or better in grade 8 mathematics course, and needs improvement or above scores on MCAS and MAP testing, and recommendation of mathematics teacher.

ALGEBRA I CP**SEMESTER II CRS H2209 GR 9 CR ½ S**

This course is the continuation of Algebra 1 College Prep. Topics include: systems of linear equations, solving linear systems, exponential functions, polynomials, factoring, graphing and solving quadratic functions, operations of exponents and radicals, and data analysis. The course includes a focus on functions and applications. A TI-83 or TI-84 graphing calculator is recommended.

ALGEBRA I CP A**SEMESTER I CRS H2210 GR 9 CR ½ S**

This Algebra I College Prep A course is taken concurrently with Foundations of Algebra and is intended for students who require a modified pace to acquire necessary skills. Content includes use of variables; functions & their graphs; solving linear function; graphing and writing linear equations; solving linear systems; data analysis; best fit lines, data analysis and basic statistics; graphing and solving quadratics; working with polynomials; graphing and using exponential functions. A variety of mathematical models, real-life contexts, and technologies are used to help develop conceptual understandings. A TI 83 or TI 84 graphing calculator is recommended. Part A will cover up to Linear Systems. *Prerequisites: Grade of C or below in grade 8 mathematics course, warning on MCAS and MAP testing, failing grade on grade 8 common benchmarks, and recommendation of mathematics teacher.*

ALGEBRA I CP A**SEMESTER II CRS H2210 GR 9 CR ½ S**

This course is the continuation of Algebra 1 College Prep A, and is taken concurrently with Foundations of Algebra. Part A concepts will be reviewed throughout. New topics will include: solving linear systems, data analysis and basic statistics, graphing and solving quadratics, working with polynomials, using exponential functions. A variety of mathematical models, real-life contexts, and technologies are used to help develop conceptual understandings. A TI 83 or TI 84 graphing calculator is recommended.

ELE FOUNDATIONS OF ALGEBRA I**SEMESTER I CRS H2275 GR 10-12 CR ½ S**

This course is an extension of Algebra I Part A. Students will continue to work at strengthening their prior Algebra skills and learn additional topics covered in a complete Algebra I course. New content will include inequalities, systems of equations and inequalities, exponential functions, radical equations, polynomials, rational expressions and functions, data and scatter plots, completing the square, factoring, solving polynomial equations, and MCAS preparation. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. *Prerequisite: Successful completion of Algebra IA.*

ELE FOUNDATIONS OF ALGEBRA I**SEMESTER II CRS H2275 GR 10-12 CR ½ S**

This course is an extension of Algebra I Part A. Students will continue to work at strengthening their prior Algebra skills and learn additional topics covered in a complete Algebra I course. New content will include inequalities, systems of equations and inequalities, exponential functions, radical equations, polynomials, rational expressions and functions, data and scatter plots, completing the square, factoring, solving polynomial equations, and MCAS preparation. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. *Prerequisite: Successful completion of Algebra IA.*

ELE ALGEBRA I COLLEGE PREP**SEMESTER I CRS H2277 GR 9-11 CR ½ S**

This Algebra I A course is intended for students who have experienced continuing difficulties with mathematics and require a modified pace to acquire necessary skills. While reviewing necessary pre-algebra skills, this course will cover the first half of the Algebra I curriculum. Content includes tools of algebra; functions & their graphs; solving, graphing, and writing linear equations; parallel and perpendicular lines; data; real numbers and their properties; simplification of radical expressions; ratio/percent/proportion; probability, and MCAS preparation. A variety of mathematical models, calculators, and real-life contexts are utilized to help develop conceptual understandings of the concepts. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. In order to achieve all Algebra standards, this course extends into the following year when students are expected to take Part B.

ELE ALGEBRA I CP**SEMESTER II CRS H2277 GR 9-11 CR ½ S**

Students enrolled in ELE Algebra I, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This Algebra I A course is intended for students who have experienced continuing difficulties with mathematics and require a modified pace to acquire necessary skills. While reviewing necessary pre-algebra skills, this course will cover the first half of the Algebra I curriculum. Content includes tools of algebra; functions & their graphs; solving, graphing, and writing linear equations; parallel and perpendicular lines; data; real numbers and their properties; simplification of radical expressions; ratio/percent/proportion; probability, and MCAS preparation. A variety of mathematical models, calculators, and real-life contexts are utilized to help develop conceptual understandings of the concepts. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. In order to achieve all Algebra standards, this course extends into the following year when students are expected to take Part B.

GEOMETRY HONORS**SEMESTER I CRS H2215 GR 9-11 CR ½ S**

This course formalizes the geometric concepts that students have learned in middle school, with an emphasis on reasoning and making mathematical arguments. In the measurement unit, students will derive formulas for surface area and volume, and use these formulas to find the area, volume, and surface area of composite figures. Students will also study fundamental measurement theorems and postulates and apply these rules when solving problems. Students 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 and similarity units. Students will also be using formal and coordinate proofs when reasoning with the properties of lines, angles, and triangles. *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 80% or higher on the district end-of-year assessment.

GEOMETRY HONORS SEMESTER II CRS H2215 GR 9-11 CR ½ S

This course is a continuation of Geometry Honors. Students will continue to formalize the geometric concepts they have learned in middle school and in Geometry Honors Part A with a continued emphasis on reasoning and making mathematical arguments. The congruence and similarity units provide opportunity for students to sharpen their applied problem solving skills and write formal proofs. Students will also be using formal and coordinate proofs when reasoning with the properties of quadrilaterals, polygons, and circles. This course also touches upon set theory and probability by challenging students to make decisions based on data analysis.

GEOMETRY CP SEMESTER I CRS H2217 GR 10-12 CR ½ S

This course formalizes the geometric concepts that students have learned in middle school, with an emphasis on reasoning and making mathematical arguments. In the measurement unit, students will derive formulas for surface area and volume, and use these formulas to find the area, volume, and surface area of composite figures. Students will also study fundamental measurement theorems and postulates and apply these rules when solving problems. Students 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 and similarity units. Students will also be using formal and coordinate proofs when reasoning with the properties of lines, angles, and triangles.

Prerequisites: Passing grade in Algebra I CP.

GEOMETRY CP SEMESTER II CRS H2217 GR 10-12 CR ½ S

This course is a continuation of Geometry College Prep. Students will continue to formalize the geometric concepts they have learned in middle school and in Geometry Honors Part A with a continued emphasis on reasoning and making mathematical arguments. The congruence and similarity units provide opportunity for students to sharpen their applied problem solving skills and write formal proofs. Students will also be using formal and coordinate proofs when reasoning with the properties of quadrilaterals, polygons, and circles. This course also touches upon set theory and probability by challenging students to make decisions based on data analysis.

Prerequisites: Passing grade in Algebra I CP.

ELE GEOMETRY CP SEMESTER I CRS H2279 GR 10-12 CR ½ S

This course is a continuation of the study of the number system begun in Algebra I. The content covered includes a review of the fundamental concepts of Algebra 1 followed by the study of quadratic equations, complex numbers, exponential and logarithmic functions, polynomial functions, and the binomial theorem, systems of equations and inequalities, and matrices. The development of math language and academic terminology consistent with geometry is a focus. A TI 83 or TI 84 graphing calculator is required.

ELE GEOMETRY CP SEMESTER II CRS H2279 GR 10-12 CR ½ S

This course is a continuation of the study of the number system begun in Algebra I. The content covered includes a review of the fundamental concepts of Algebra 1 followed by the study of quadratic equations, complex numbers, exponential and logarithmic functions, polynomial functions, and the binomial theorem, systems of equations and inequalities, and matrices. The development of math language and academic terminology consistent with geometry is a focus. A TI 83 or TI 84 graphing calculator is required.

INTERMEDIATE ALGEBRA SEMESTER I CRS H2212 GR 11-12 CR ½ S

This course is designed to help students strengthen their Algebra and overall math skills prior to enrolling in a formal Algebra II course. Part A topics will include: the real number system, solving linear equations, including multi-step equations and absolute value equations, graphing linear functions, and writing linear functions. *Prerequisite: Successful completion of Algebra I and Geometry. Students may take Intermediate Algebra if Geometry is taken concurrently.*

INTERMEDIATE ALGEBRA SEMESTER II CRS H2212 GR 11-12 CR ½ S

This course is a continuation of Intermediate Algebra. Part B of this course will cover the following topics: solving systems of linear equations by graphing, substitution, and elimination, exponential functions and sequences, polynomials and factoring (quadratics). *Prerequisite: Successful completion of Algebra I and Geometry. Students may take Intermediate Algebra if Geometry is taken concurrently.*

ALGEBRA II HONORS SEMESTER I CRS H2223 GR 10-12 CR ½ S

This course continues a rigorous presentation of the number system properties begun in Algebra I Honors. Algebra II: Part A is the study of quadratic, polynomial, and rational functions. A TI 83 or TI 84 graphing calculator is required. *Prerequisites: Grade of B or better in both Algebra I Honors and Geometry Honors. NOTE: A freshman teacher recommendation is required for enrollment of a sophomore.*

ALGEBRA II HONORS SEMESTER II CRS H2223 GR 10-12 CR ½ S

This course is the continuation of Algebra 2 Honors. Topics include the study of radical, exponential, logarithmic and trigonometric functions, as well as geometric and arithmetic sequences, probability, statistics and choosing a function. A TI 83 or TI 84 graphing calculator is required.

ALGEBRA II CP **SEMESTER I** **CRS H2225** **GR 10-12** **CR ½** **S**
This course continues a rigorous presentation of the number system properties begun in Algebra I Honors. Algebra II: Part A is the study of quadratic, polynomial, and rational functions. A TI 83 or TI 84 graphing calculator is required. **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 CP **SEMESTER II** **CRS H2225** **GR 10-12** **CR ½** **S**
This course is the continuation of Algebra 2 College Prep. Topics include the study of radical, exponential, logarithmic and trigonometric functions, as well as geometric and arithmetic sequences, probability, statistics and choosing a function. A TI 83 or TI 84 graphing calculator is required.

PRECALCULUS HONORS **SEMESTER I** **CRS H2229** **GR 11-12** **CR ½** **S**
This Honors level course in advanced algebra and functional analysis (with a graphing approach) is designed to prepare students for Calculus. Part A topics include: Parent Functions, their graphs and transformations; Polynomials and Rational Functions; Exponential and Logarithmic Functions; and an introduction to Limits. Students are expected to have mastered the key concepts from Algebra II and Geometry. A TI 83 or TI 84 graphing calculator is required. **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.*

PRECALCULUS HONORS **SEMESTER II** **CRS H2229** **GR 11-12** **CR ½** **S**
This course is a continuation of Precalculus Honors. Part B topics include: Trigonometric Functions; Analytical Trigonometry; additional study of Limits; Matrices, Vectors, Polar Coordinates; and Sequences & Series. Students are expected to have mastered the key concepts from Algebra II, Geometry, and Semester 1 Pre-Calculus Honors. A TI 83 or TI 84 graphing calculator is required.

CALCULUS HONORS **SEMESTER I** **CRS H2232** **GR 12** **CR ½** **S**
Calculus Honors is a survey course dealing with topics from the first and second semesters of a college calculus course. Part A topics include: an extensive review of pre-calculus and trigonometry topics, limits, continuity and an introduction to derivatives. Applications covered include area and volume. A TI 83 or TI 84 graphing calculator is required. **Prerequisite:** *Grade of C or better in Precalculus and recommendation of mathematics teacher.*

CALCULUS HONORS **SEMESTER II** **CRS H2232** **GR 12** **CR ½** **S**
This course is a continuation of Calculus Honors. Part B topics include: derivatives and their applications, and integrals and their applications. Applications covered include optimization problems, and related rate problems. A TI 83 or TI 84 graphing calculator is required.

CALCULUS AP - AB **CRS H2234** **GR 11-12** **CR 1** **Y**
This course is an introduction to the fundamentals of differential and integral calculus for students planning to take advanced mathematics courses in college. Topics covered include limits, continuity, derivatives, integrals and their applications as well as all other topics in the College Board's topical guide provided for Calculus AB. Calculus AB is the equivalent of one semester of college calculus with supplementary material designed to strengthen the student's background in advanced algebra and trigonometry. Students in this course are required to take the Calculus AB exam. A TI 83 or TI 84 graphing calculator is required. **Prerequisites:** *Grade of B or better in Pre-Calculus Honors, and recommendation of mathematics teacher.*

PROBABILITY AND STATISTICS **SEMESTER I** **CRS H2237** **GR 11-12** **CR ½** **S**
This course will cover topics including data collection and ethics, random variables, and statistical measure of data. Computer software (Minitab and Excel) will be used. It is offered as an elective for college preparatory credit and for a mathematics credit. **Prerequisite:** *Grade of B- or better in Algebra II and recommendation of mathematics teacher.*

PROBABILITY AND STATISTICS **SEMESTER II** **CRS H2237** **GR 11-12** **CR ½** **S**
This course is a continuation of Probability and Statistics. Part B topics include: statistical descriptions of data, and probability. Computer software (Minitab and Excel) will be used. It is offered as an elective for college preparatory credit and for a mathematics credit. **Prerequisite:** *Grade of B- or better in Algebra II and recommendation of mathematics teacher.*

STATISTICS AP **CRS H2238** **GR 11-12** **CR 1** **Y**
This course is equivalent to a college statistics course and covers the entire College Board topic outline for AP Statistics. Students 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. Students in this course are required to take the exam for Statistics. A TI 83 or TI 84 graphing calculator is required. **Prerequisite:** *Grade of B or better in Pre-Calculus, or, with the recommendation of the mathematics teacher, an A in Algebra II H if taken concurrently with Pre-Calculus or Algebra & Trigonometry.*

INTRODUCTION TO PROGRAMMING**CRS H2243 GR 10-12 CR ½ S**

Introduction to Programming uses Python as a basis for learning general programming skills. Students 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. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming. ✓ *School to Career requirement option*

INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS**CRS H9652 GR 10 CR ½ S**

Introduction to Programming uses Python as a basis for learning general programming skills. Students 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. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming. *Prerequisite: Enrollment in the NAF IT Academy.* ✓ *School to Career requirement option.*

ROBOTICS**CRS H2280 GR 10-12 CR ½ S**

Robotics provides students with the opportunity to apply math and engineering to learn how robots are built, move, and “think.” Students get hands on experience with various robotic technologies currently used at U-Mass Lowell and other colleges; building robots, and developing programs to make them move and learning to use sensors. *Prerequisite: Completion of a full Algebra I course with a C or better.*

ROBOTICS (NAF IT CVTE)**CRS H9656 GR 9 CR ½ S**

Robotics provides students with the opportunity to apply math and engineering to learn how robots are built, move, and “think.” Students get hands on experience with various robotic technologies currently used at U-Mass Lowell and other colleges; building robots, and developing programs to make them move and learning to use sensors. *Prerequisite: Enrollment in the NAF IT Academy. Completion of a full Algebra I course with a C or better.*

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

This is an advanced computer-science programming course with emphasis on Java programming. It provides students 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 students for the AP Computer Science exam, which is mandatory. Students also have the opportunity to earn 4 transferable college credits when grant funding is available by using an online eBook developed and used at U-Mass Amherst. *Prerequisites: Passing grade in Web Site Design, Multi-media, or Robotics, and a B or better in Algebra II, and/or approval of the teacher.* ✓ *School to Career requirement option.*

COMPUTER SCIENCE: GAME DESIGN AND DEVELOPMENT**CRS H2248 GR 12 CR 1 Y**

Game programming is one of the most challenging aspects of Computer Science. It attempts to combine concepts in: math, physics, computer graphics, human computer interaction, artificial intelligence, computer aided instruction, and databases. This course is an introduction to the theory and practice of video game design and programming. Topics include the history of game design and animation, game theory, game genres, game assets, and the Unity 3D game engine. Students are required to develop a game in Unity 3D, demonstrating design principles discussed in the course. *Prerequisite: Successful completion of Computer Science-A AP and Teacher recommendation.* ✓ *School to Career requirement option.*

ALGEBRA & TRIGONOMETRY:**A FUNCTIONS APPROACH****SEMESTER I CRS H2258 GR 12 CR ½ S**

This course is a fourth-year math course designed to help students 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. Graphing calculators are recommended. Students who have passed Pre-Calculus cannot take this course for credit. *Prerequisite: Successful completion of Algebra II.*

ALGEBRA & TRIGONOMETRY:**A FUNCTIONS APPROACH****SEMESTER II CRS H2258 GR 12 CR ½ S**

This course is a fourth-year math course designed to help students 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. Graphing calculators are recommended. Students who have passed Pre-Calculus cannot take this course for credit. **Prerequisite:** *Successful completion of Algebra II.*

ACCOUNTING HONORS SEMESTER I CRS H6631 GR 11-12 CR ½ S
This Accounting Pilot and Bridge Project uses an integrated approach to teach real-world accounting. Students 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 decisions 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, students 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 4th year credit in mathematics. **Prerequisites:** *Grade of B or better in Algebra II and recommendation of mathematics or business teacher.*

ACCOUNTING HONORS SEMESTER II CRS H6631 GR 11-12 CR ½ S
Students enrolled in the Accounting Honors Semester II, will enhance and refine the skills they acquired during Semester I as well as build upon that skill set in other valuable ways. This Accounting Pilot and Bridge Project uses an integrated approach to teach real-world accounting. Students 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 decisions 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, students 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 4th year credit in mathematics. **Prerequisites:** *Grade of B or better in Algebra II and recommendation of mathematics or business teacher.*

SCIENCE, TECHNOLOGY AND ENGINEERING

The science curriculum is designed to develop science literacy for all students. Globalization of information and economies has made it imperative that students understand scientific processes and content. Students 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.

BIOLOGY HONORS SEMESTER I CRS H3313 GR 9 CR ½ S
Biology Honors is a rigorous course emphasizing cellular structure and function, biochemistry, photosynthesis, cellular respiration, and the six kingdom classification system. Students are expected to apply conceptual knowledge to interpret the biological world. Emphasis will be 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.*

BIOLOGY HONORS SEMESTER II CRS H3313 GR 9 CR ½ S
Biology Honors is a continuation of Biology Honors. The course covers: the cell cycle, genetic inheritance, DNA structure, protein synthesis, ecology, evolution, and human anatomy & physiology. Students are expected to apply conceptual knowledge to interpret the biological world. Emphasis will be 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.

BIOLOGY CP SEMESTER I CRS H3315 GR 9 CR ½ S
Biology College Prep is a challenging course that involves lab work in addition to coursework and projects both inside and outside of class. After completing this course, students will have a solid understanding of the processes of life, which will allow them to make scientifically informed decisions related to their health and to the health of the planet. Students in Biology College Prep will cover: cellular structure and function, biochemistry, photosynthesis, cellular respiration, and the six kingdom classification system. All students 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 CP SEMESTER II CRS H3315 GR 9 CR ½ S
Biology College Prep is a continuation of Biology College Prep A. After completing this course, students will have a solid understanding of the processes of life, which will allow them to make scientifically informed decisions related to their health and to the health of the planet. Students in Biology College Prep will cover: the cell cycle, genetic inheritance, DNA structure, protein synthesis, ecology, evolution, and human anatomy & physiology. All students will be expected to take the Biology MCAS test at the conclusion of this course as part of their high school graduation requirement.

ELE BIOLOGY I SEMESTER I CRS H7343 GR 9-12 CR ½ S
This biology content/ELE course is designed to parallel the semester 1 freshman course in the area of biology. It covers the following topics: cell structures, biochemistry, enzymes, photosynthesis, and cellular respiration. 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 introduces newcomers to biology in order to help prepare them for the Biology MCAS, which will be taken at the end of ELE Biology II. **Only for ELL Students level 1 or 2**

ELE BIOLOGY I SEMESTER II CRS H7343 GR 9-12 CR ½ S

This biology content/ELE course is designed to parallel the freshman course in the area of biology. It covers the following topics: cell cycle, mitosis, meiosis, DNA structure, protein synthesis, genetic inheritance, evolution, ecology, and human anatomy and physiology. 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 introduces newcomers to biology in order to help prepare them for the Biology MCAS, which will be taken at the end of ELE Biology II. Upon completion of ELE Biology IB and ACCESS scores, students leveled 1 and 2 should be recommended for ELE Biology II. Students leveled 3 and above should be recommended for Biology CP or Biology Honors. **Only for ELL Students level 1 or 2**

ELE BIOLOGY II SEMESTER I CRS H9617 GR 9-12 CR ½ S

This course expands upon topics introduced in ELE Biology I, with the assumption that students have increased content knowledge and English proficiency. It covers the following topics: cell structures, biochemistry, enzymes, photosynthesis, and cellular respiration, with an increased emphasis on laboratory investigations. 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. Students will prepare for the June MCAS. **Prerequisite: ELE Biology I. Only for ELL Students level 1 or 2**

ELE BIOLOGY II SEMESTER II CRS H9617 GR 9-12 CR ½ S

This course expands upon topics introduced in ELE Biology I, with the assumption that students have increased content knowledge and English proficiency. It covers the following topics: cell cycle, mitosis, meiosis, DNA structure, protein synthesis, genetic inheritance, evolution, ecology, and human anatomy and physiology, with an increased emphasis on laboratory investigation. 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. Students will prepare for the June MCAS. **Prerequisite: ELE Biology I Only for ELL Students level 1 or 2**

BIOLOGY AP CRS H3317 GR 11-12 CR 1 Y

Biology is designed to be the equivalent of a college introductory course usually taken by science majors during their first year. It provides students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the dynamics of biological science in today's world. The three general topics are: Molecules and Cells; Heredity and Evolution; Organisms and Populations. This course includes significant lab work. Dissection has been a part of this course in past years. Alternatives to dissection are available for any student who objects to dissection and whose parent or guardian sends a written request to the school. Students 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. Recommended: Previous or concurrent enrollment in Physics. ✓ School to Career requirement option when taken as a 4th year of Science.**

BIOLOGY AP LAB CRS H3317L GR 11-12 CR 1 Y

This lab course provides students with the lab experience essential in all college introductory Biology courses. The labs are designed to support the content covered in AP Biology and students must be concurrently enrolled in that course. Dissection has been a part of AP Biology in past years. Alternatives to dissection are available for any student who objects to dissection and whose parent or guardian sends a written request to the school. **Co-requisite: AP Biology. Non-weighted course.**

CHEMISTRY HONORS SEMESTER I CRS H3319 GR 10-12 CR ½ S

Honors Chemistry 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. Lab work is an integral part of the course. As with all Honors level science classes, evaluation includes challenges beyond the classroom experience. **Prerequisite: Completion or concurrent enrollment in Algebra 2 and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in Biology or science MCAS prep/tutoring; or approval of the Dean of the STEM Academy. Recommended: Minimum grade of B in Biology.**

CHEMISTRY HONORS SEMESTER II CRS H3319 GR 10-12 CR ½ S

Honors Chemistry 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 chemical reactions and stoichiometry, gases 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: Completion or concurrent enrollment in Algebra 2 and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in Biology or science MCAS prep/tutoring; or approval of the Dean of the STEM Academy. Recommended: Minimum grade of B in Biology.**

CHEMISTRY CP**SEMESTER I CRS H3321 GR 10-12 CR ½ S**

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. Lab work is an integral part of the course. *Prerequisite: Completion or concurrent enrollment in Algebra 2 and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.*

CHEMISTRY CP**SEMESTER II CRS H3321 GR 10-12 CR ½ S**

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 chemical reactions and stoichiometry, gases and kinetic molecular theory, aqueous solutions, acids and bases, equilibrium. Lab work is an integral part of the course. *Prerequisite: Completion or concurrent enrollment in Algebra 2 and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.*

CHEMISTRY AP**CRS H3343 GR 11-12 CR 1 Y**

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 student'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. Students 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 science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.* ✓ *School to Career requirement option when taken as a 4th year of science.*

CHEMISTRY AP LAB**CRS H3343L GR 11-12 CR 1 Y**

This lab course provides students with the lab experience required in college level chemistry courses. The labs are designed to support the content covered in AP Chemistry and students must be concurrently enrolled in that course. *Co-requisite: AP Chemistry Non-weighted course.*

BIOLOGY: MCAS PREP**CRS H3410 GR 9-10 CR ½ S**

This MCAS prep course in biology focuses on reviewing the biological concepts found in the state frameworks and preparing the student to take the biology MCAS exam. Areas of focus include biochemistry, cells, genetics, human body systems and ecology. Students will be provided with ample opportunities to take practice MCAS tests and review successful test-taking strategies. Students taking this course will automatically be scheduled for a study hall in the spring semester.

ANATOMY & PHYSIOLOGY HONORS**SEMESTER I CRS H3332 GR 11-12 CR ½ S**

This course is recommended for prospective students 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 has been an integral part of this course in past years. Alternatives to dissection are available for any student 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 and Chemistry and recommendation of a science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

ANATOMY & PHYSIOLOGY HONORS**SEMESTER II CRS H3332 GR 11-12 CR ½ S**

This course is recommended for prospective students 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 has been an integral part of this course in past years. Alternatives to dissection are available for any student 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 and Chemistry and recommendation of a science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

ANATOMY & PHYSIOLOGY CP**SEMESTER I CRS H3331 GR 11-12 CR ½ S**

This course is recommended for students who are interested in human body anatomy and physiology. 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 has been an integral part of this course in past years. Alternatives to dissection are available for any student 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: A minimum grade of C in Biology and Chemistry and recommendation of a science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam;*

concurrent enrollment in science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.

ANATOMY & PHYSIOLOGY CP **SEMESTER II** **CRS H3331** **GR 11-12** **CR ½** **S**
Students enrolled in Semester II will enhance and refine the skills they acquired during Semester I. This course is recommended for students who are interested in human body anatomy and physiology. 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 has been an integral part of this course in past years. Alternatives to dissection are available for any student 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: A minimum grade of C in Biology and Chemistry and recommendation of a science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

INTRODUCTION TO STEM CAREERS **CRS H3310** **GR 9-12** **CR ½** **S**
This career exploration course introduces students to the varied opportunities available in the science, technology, engineering and mathematics fields. Students will leave this course better prepared to enter college and/or the workforce in one of the many STEM careers. Students will engage in project-based learning and laboratory investigations in order to practice the many skills required to succeed in a STEM field. Some of the skills taught in this course include: measurement, designing experiments, creating scale models, using the microscope, and using biotechnology lab techniques.

ZOOLOGY AND LAB CP **SEMESTER I** **CRS H3352** **GR 10-12** **CR ½** **S**
Zoology is an introduction to the biology of animal kingdom. The course will provide a survey of invertebrate biodiversity, anatomy, physiology, ecology, behavior, and evolution. Additionally, this course will contain a laboratory component containing experiments and observations that study the anatomy, physiology, and ecology of selected invertebrates. *Prerequisite: A minimum grade of C in Biology or Life Science and recommendation of a science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; or approval of the Dean of the STEM Academy.*

ZOOLOGY AND LAB CP **SEMESTER II** **CRS H3352** **GR 10-12** **CR ½** **S**
Zoology is an introduction to the biology of animal kingdom. The course will provide a survey of vertebrate biodiversity, anatomy, physiology, ecology, behavior, and evolution. Additionally, this course will contain a laboratory component containing experiments and observations that study the anatomy, physiology, and ecology of selected vertebrates.

ZOOLOGY AND LAB HONORS **SEMESTER I** **CRS H3353** **GR 10-12** **CR ½** **S**
Honors zoology is a rigorous investigation into the animal kingdom. The course will provide a broad survey of invertebrate biodiversity, functional anatomy, physiology, ecology, behavior, and evolution. Additionally, this course will contain a laboratory component focusing on the structure and development of organ systems, and experiments that study the physiological processes of selected invertebrates. *Prerequisite: A minimum grade of B in Biology or Life Science and recommendation of a science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; or approval of the Dean of the STEM Academy.*

ZOOLOGY AND LAB HONORS **SEMESTER II** **CRS H3353** **GR 10-12** **CR ½** **S**
Honors zoology is a rigorous investigation into the animal kingdom. The course will provide a broad survey of vertebrate biodiversity, functional anatomy, physiology, ecology, behavior, and evolution. Additionally, this course will contain a laboratory component focusing on the structure and development of organ systems, and experiments that study the physiological processes of selected vertebrates.

MEDICAL TERMINOLOGY & HUMAN DISEASES **CRS H3425** **GR 11-12** **CR ½** **S**
This course introduces students to the language used in the work of health professionals. Learning activities are based upon use of root terms and word building, as students develop a basic understanding and fluency in medical vocabulary. The course overviews human body systems, focusing on disease, diagnoses and treatments and the manner in which this information is communicated in medical settings. Applications of basic health care practices are frequently included. *Prerequisite: Anatomy and Physiology (prior or concurrent).* ✓ *School to Career requirement option.*

BIOTECHNOLOGY & FORENSICS CP **CRS H3341** **GR 10-12** **CR ½** **S**
Biotechnology and Forensics is a lab intensive science course. This course will incorporate current technology into the application of life science. The first portion of the course will expose students to cutting edge technology like cloning and polymerase chain reaction, current and controversial issues, people, practices and future ideals. The second half of this course covers the principles of forensics, where fingerprinting, ballistics, blood analysis, and much more. This is not a traditional science course, as students will spend almost every day discovering, experimenting and inventing. *Prerequisites: A minimum grade of C in Biology, recommendation of a science teacher and a minimum grade of 220 on the Biology MCAS.*

EARTH SCIENCE HONORS**SEMESTER I CRS H3308 GR 10-12 CR ½ S**

This course is designed to give students 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. Lab work is an integral part of the course. Evaluation includes challenges beyond the classroom experiences. *Prerequisites: Algebra I and recommendation of science teacher; Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

EARTH SCIENCE HONORS**SEMESTER II CRS H3308 GR 10-12 CR ½ S**

This course is designed to give students the opportunity for a rigorous in-depth study of 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 and recommendation of science teacher; Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

EARTH SCIENCE CP**SEMESTER I CRS H3309 GR 10-12 CR ½ S**

This course is designed to give students 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. Lab work is an integral part of the course. Evaluation includes challenges beyond the classroom experiences. *Prerequisites: Algebra I and recommendation of science teacher; Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

EARTH SCIENCE CP**SEMESTER II CRS H3309 GR 10-12 CR ½ S**

This course is designed to give students the opportunity for an in-depth study of 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 and recommendation of science teacher; Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

ENVIRONMENTAL SCIENCE CP**CRS H3335 GR 10-12 CR ½ S**

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 course does not meet college lab science requirements. *Prerequisite: Recommendation of Science Teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

ENVIRONMENTAL SCIENCE AP**CRS H3336 GR 11-12 CR 1 Y**

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. *Prerequisites: A minimum of B+ in Life Science or Earth Science; recommendation of Science Teacher; a minimum grade of 220 on a high school level MCAS Exam; minimum grade of B in Algebra I and successful completion or current enrollment in Chemistry or Physics.*

METEOROLOGY CP**CRS H3349 GR 10-12 CR ½ S**

Meteorology is a semester course that explores the factors affecting weather and climate. This course will focus on New England weather, global weather patterns, climate, and climate change. This course does not meet college lab science requirements. *Prerequisite: Recommendation of Science Teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy. Recommended: Algebra I*

**INTRODUCTION TO OCEANOGRAPHY
COLLEGE PREP****CRS H3357 GR 10-12 CR ½ S**

Oceanography is the branch of earth science that studies the oceans and oceanic phenomena. It covers a wide range of topics, including marine organisms and ecosystem dynamics; ocean currents, waves and geophysical fluid dynamics; plate tectonics and the geology of the sea floor. These diverse topics reflect multiple disciplines that oceanographers blend to further knowledge of the world's ocean and understanding of the processes within it. *Prerequisites: Recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

INTRODUCTION TO ASTRONOMY CP**CRS H3355 GR 10-12 CR ½ S**

This course covers the history of astronomy from Aristotle until today; the development and use of telescopes and other tools of astronomers; the formation and current state of the solar system; basic astrophysics including planetary motion, Newton's Law of Gravitation, and Kepler's Laws; and stellar evolution. Also covered is the electromagnetic spectrum and its use in studying celestial objects. The course will conclude with exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. *Prerequisites: Algebra I and recommendation of the science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or concurrent enrollment in Chemistry or Physics with approval of the Dean of the STEM Academy.*

PHYSICS HONORS**SEMESTER I CRS H3325 GR 10-12 CR ½ S**

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; and linear momentum. Students 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. *Prerequisite: Minimum grade of B+ in Algebra I and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.*

PHYSICS HONORS**SEMESTER II CRS H3325 GR 10-12 CR ½ S**

Physics Honors is a continuation of Physics Honors investigating basic physical principles that require both a deep understanding of qualitative concepts as well as proficiency in mathematical methods. The course may include heat, electromagnetism, waves, optics and other topics as time permits. Students 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. *Prerequisite: Minimum grade of B+ in Algebra I and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.*

PHYSICS CP**SEMESTER I CRS H3327 GR 10-12 CR ½ S**

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. Students are expected to integrate these concepts and apply them to a variety of situations. Laboratory work is an integral part of the course. *Prerequisite: Minimum grade of B- in Algebra I and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.*

PHYSICS CP**SEMESTER II CRS H3327 GR 10-12 CR ½ S**

Physics College Prep presents a continuation of the basic physical principles that require both an understanding of qualitative concepts as well as proficiency in mathematical methods. The course may include heat, electromagnetism, waves, optics and other topics as time permits. Students are expected to integrate these concepts and apply them to a variety of situations. Laboratory work is an integral part of the course. *Prerequisite: Minimum grade of B- in Algebra I and recommendation of science teacher. Either a minimum grade of 220 on a high school level Science MCAS Exam; concurrent enrollment in a Biology course or science MCAS prep/tutoring; or approval of the Dean of the STEM Academy.*

PHYSICS C: MECHANICS AP**CRS H GR 11-12 CR 1 Y**

AP Physics - A is preparation for the College Board's AP Physics C Mechanics exam. It is a calculus-based course equivalent to a first-semester college course in physics. The course provides in-depth coverage of kinematics, Newton's Laws of Motion, circular motion; gravitation; work; energy; power; systems of particles and linear momentum; rotational kinematics and dynamics; and oscillations. Introductory-level differential and integral calculus is used throughout the course. 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. Students are expected to take the AP Physics C Mechanics exam in May. NOTE: A prior course in Calculus is not required. *Prerequisites: A minimum of B+ in Algebra I, successful completion of Honors or CP Physics and teacher recommendation; or approval of the Dean of the STEM Academy.* ✓ *School to Career requirement option when taken as a 4th years science.*

INTRODUCTION TO ENGINEERING I**SEMESTER I CRS H3333 GR 11-12 CR ½ S**

This course is based on the Museum of Science program, *Engineering the Future*. It provides a hands-on introduction to engineering and the engineering design process. Through assignments and projects, students learn how to: identify a problem, develop alternative solutions, select the best alternative, make critical decisions, and work as a team. Students will focus on mechanical, industrial, and civil engineering this semester. *Prerequisites: Junior or senior standing with a GPA of 3.0 or better and a passing grade on a high school level science MCAS exam.*

INTRODUCTION TO ENGINEERING I SEMESTER II CRS H3333 GR 11-12 CR ½ S

This course is a continuation of Introduction to Engineering I and is based on the Museum of Science program, *Engineering the Future*. It provides a hands-on introduction to engineering and the engineering design process. Through assignments and projects, students learn how to: identify a problem, develop alternative solutions, select the best alternative, make critical decisions, and work as a team. Students focus on electrical engineering and are introduced to CAD and 3-D printing.

INTRODUCTION TO ENGINEERING II SEMESTER I CRS H3334 GR 11-12 CR ½ S

This course is a continuation of Introduction to Engineering I and follows the same format. Students will complete the *Engineering the Future* curriculum and continue with more independent engineering designs with an increased focus on CAD and 3-D printing.

Prerequisites: *Successful completion of Introduction to Engineering I.*

INTRODUCTION TO ENGINEERING II SEMESTER II CRS H3334 GR 11-12 CR ½ S

This course is a continuation of Introduction to Engineering II semester I and follows the same format. Students will work on a variety of design projects, applying the concepts and engineering design process learned in Introduction to Engineering I and II A.

COMPUTER-AIDED MODELING IN THE PHYSICAL SCIENCES (CAMPS) CRS H3320 GR 11-12 CR ½ S

CAMPS is a hands-on and project-based course that will enable students to develop programming skills using R (or other tools) with particular emphasis on problem-solving and data visualization in the physical sciences. Topics include working in the console, developing algorithms, assigning variables and calling functions. Students will improve their critical thinking skills through the development of correct and efficient coding and increase their understanding of physical laws and concepts by building programs that allow them to run various simulations. **Prerequisites:** *Successful completion of Physics.*

INTRODUCTION TO PROGRAMMING CRS H2243 GR 10-12 CR ½ S

Introduction to Programming uses Python as a basis for learning general programming skills. Students 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. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming. ✓ *School to Career requirement option*

INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS CRS H9652 GR 10 CR ½ S

Introduction to Programming uses Python as a basis for learning general programming skills. Students 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. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming. **Prerequisite:** *Enrollment in the NAF IT Academy.* ✓ *School to Career requirement option.*

PRINCIPLES OF IT (CTE) HONORS CRS H6136 GR 9 CR ½ S

This is the first course students take in the STEM Information Technology pathway. It 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 network topology, and they set up an email client/server connection. Students also consider contemporary issues such as security, privacy, and technological inequality. Finally, students explore career opportunities in IT.

Prerequisite: *Enrollment in the CTE Program.* ✓ *School to Career requirement option.*

PRINCIPLES OF IT (NAF IT CVTE) HONORS CRS H9653 GR 9 CR ½ S

This is the first course students take in the STEM Information Technology pathway. It 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 network topology, and they set up an email client/server connection. Students also consider contemporary issues such as security, privacy, and technological inequality. Finally, students explore career opportunities in IT.

Prerequisite: *Enrollment in the NAF IT Academy* ✓ *School to Career requirement option.*

REPLICATING THE FUTURE CRS H6652 GR 11-12 CR ½ S

This class will introduce the concept of 3D modeling, prototyping, replication/construction and design to selected students. In addition to producing real prototype projects for each student, The OBJECTIVE or ‘byproduct’ of this course will be to have students self-replicate additional pieces as ‘Kits’ for additional printers for use here in the High School and elsewhere in the District. ✓ *School to Career requirement option.*

REPLICATING THE FUTURE (NAF IT CVTE) HONORS

CRS H9654 GR 11 CR ½ S

This class will introduce the concept of 3D modeling, prototyping, replication/construction and design to selected students. In addition to producing real prototype projects for each student, The OBJECTIVE or ‘byproduct’ of this course will be to have students self-replicate additional pieces as ‘Kits’ for additional printers for use here in the High School and elsewhere in the District. *Prerequisite: Enrollment in the NAF IT Academy* ✓ *School to Career requirement option.*

ROBOTICS

CRS H2280 GR 10-12 CR ½ S

Robotics provides students with the opportunity to apply math and engineering to learn how robots are built, move, and “think.” Students get hands on experience with various robotic technologies currently used at U-Mass Lowell and other colleges; building robots, and developing programs to make them move and learning to use sensors. *Prerequisite: Completion of a full Algebra I course with a C or better.*

ROBOTICS (NAF IT CVTE)

CRS H9656 GR 9 CR ½ S

Robotics provides students with the opportunity to apply math and engineering to learn how robots are built, move, and “think.” Students get hands on experience with various robotic technologies currently used at U-Mass Lowell and other colleges; building robots, and developing programs to make them move and learning to use sensors. *Prerequisite: Enrollment in the NAF IT Academy. Completion of a full Algebra I course with a C or better.*

COMPUTER SYSTEMS (NAF IT CVTE) HONORS

CRS H9651 GR 10 CR ½ S

Computer Systems walks students through the intricacies of setting up hardware, installing software, connecting to a network, and connecting to the Internet. Students get hands-on practice upgrading operating systems. They get practice assembling and disassembling computer hardware including peripherals, motherboards, FRUs, and connectors. Students also learn troubleshooting techniques. Finally, students get a chance to explore careers for computer systems professionals. *Prerequisite: Enrollment in the NAF IT Academy* ✓ *School to Career requirement option.*

PROGRAMMING AND WEB DEVELOPMENT I (CTE) HONORS

CRS H9652 GR 9 CR ½ S

Students will learn and demonstrate concepts, fundamentals of programming and web development. This course provides a hands-on introduction to the technical and creative skills of professional programmers and web developers. Students will strengthen their public speaking skills by presenting projects to community leaders. *Prerequisite: Enrollment in the CTE Program.* ✓ *School to Career requirement option.*

COMPUTER NETWORKING (NAF IT CVTE) HONORS

CRS H9650 GR 11 CR ½ S

Computer Networking is a hands-on introduction to peer-to-peer, client/server, and cloud computing networks. The course guides students through all phases of implementing and troubleshooting common TCP/IP Ethernet networks. It covers network components, cables, and connectors, as well as the OSI model, protocols, and topologies. Students implement and troubleshoot a LAN and learn about access issues for WANs. Students also get hands-on experience with cloud computing. Students will strengthen their public speaking skills by presenting projects to community leaders. Finally, students explore opportunities for network-related careers. *Prerequisites: NAF Principles of IT, NAF Intro to Programming and NAF Computer Systems.* ✓ *School to Career requirement option.*

iSCHOOL APPLIED TECHNOLOGY

CRS H6648 GR 10-12 CR ½ S

Students will develop a solid understanding of Apple hardware and software systems including, but not limited to, basic hardware and software troubleshooting computer terminology, peripheral setup and management, and digital content creation. Students will learn to engage both peers and teachers alike with a non-directive, collaboration-focused approach to training and technical support with practical ha, hands-on experience in developing workshops, creating training materials, exploring new technology-driven tools, performing in-room technical assistance, and practicing digital content creation in the everyday educational setting. *Prerequisite: Teacher recommendation and interview process.* ✓ *School to Career requirement option.*

CAD COMPUTER AIDED DRAFTING

CRS H6651 GR 10-12 CR ½ S

Computer Aided Design. Students will use open source software to create three-dimensional drawings of a multitude of objects. Students will begin the course by designing a simple shed. At the end of the course, students will design more complex structures. In addition, students will learn to combine objects to make a working prototype Standards of the 21st century engineering/design room will be presented and students will collaborate on developing complex drawings. Students will use Google Sketch extensively as they learn about the evolution of software from AutoCad to today. This class is intended for the student pursuing engineering, architectural design, construction, fashion construction, or three dimensional art programs. ✓ *School to Career requirement option.*

EMERGENCY MEDICAL TECHNICIAN (EMT)

CRS EM1101 GR 12 CR 2 Y

Learn how to assess and treat patients who are sick and/or injured - at home, in a car accident, in a nursing home, at school, at a football game, hiking with family and friends, anywhere! Learn how to check pulses and blood pressures, listen to lung sounds, splint broken bones, defibrillate the heart, deliver a baby, stop bleeding, and more. Perfect your patient assessment and care skills in the Medical Lab with SimMan© - our human-equivalent simulation manikin. It breathes – you can listen to its lungs and hear it breathe! You can see its chest rise and fall with each breath it takes! It has a heartbeat you can feel! The eyes blink! Course meets ALL state and National requirements for EMTs and includes CPR certification, Child Abuse Mandated Reporter certification, and FEMA courses/certifications necessary for employment as an EMT. Strongly recommended for those seeking a career in medicine.

Prerequisites: *Students must be at least 18 years of age by 1 May (minimum age for certification testing eligibility).*

Certification Information: Students successfully completing the course are eligible to take the State psychomotor certification exam (\$150.00) and the National Registry of EMTs (NREMT) cognitive exams (\$80.00). State EMT Certification fee is due once all exams are complete (\$150.00). Program tuition: \$2,025.00 (installment payments due the first of each program month).

CAREER TECHNICAL EDUCATION (CTE)

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

Unlike private schools, HHS is able to offer a wider variety of technical courses and electives to round out a student’s education. Additionally, HHS offers rigorous **Advanced Placement®** courses and concurrent enrollment opportunities for those students interested in attending highly competitive universities and colleges. Alternatively, students will be positioned to complete post-secondary certificate programs or immediately enter the high-demand STEM workforce.

All CTE programs require an application (due in February for the following school year) but do not require an entrance exam. Both incoming freshmen and current HHS freshmen are eligible to apply.

- **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. Students may be eligible for professional certifications such as EMT or CNA.

- **Programming & Web Development (CTE)**

Programmers use algorithms and logic to design, write, test and debug code that is used to control computer systems and build apps. Web developers use code to build and control the behavior of websites.

- **NAF Academy of Information Technology (CVTE)**

In this approved vocational program, students will gain a variety of skills across a broad spectrum of hardware and software solutions that drive technological innovation in a modern society. Upon completion of the program, students (1) earn a NAFTrack Certification, which entitles them to preferential hiring opportunities with partners such as Juniper Networks, Cisco Systems, HP, AT&T, EMC2, Verizon and Xerox and (2) will benefit from articulation agreements with local colleges and universities.

CTE HEALTHCARE I HONORS

CRS H9619 GR 9 CR 1 Y

Students will learn how healthcare works in the US and how health assisting fits into that vision? This course guides students through the following healthcare topics, professionalism in healthcare, ethics and legal responsibilities interacting with patients, safety protocols in Health Assisting infectious diseases, vital signs, musculoskeletal system, first aid, cardiovascular and pulmonary systems, digestive system and nutrition and medications. Students will take their knowledge of these topics and practice in real world scenarios. Students will strengthen their public speaking skills by presenting projects to community leaders. Finally, students will explore different careers in healthcare. ✓ *School to Career requirement option.*

CTE HEALTHCARE II

CRS H GR 10 CR 1 Y

The Healthcare II course will provide students with the fundamentals of healthcare through rigorous coursework and practical clinical experience using state of the art technology, equipment and techniques. Students will focus on interacting with and delivering direct care to patients as well as administrative duties in a medical setting. Students will strengthen their public speaking skills by presenting projects to community leaders. ✓ *School to Career requirement option.*

INTRODUCTION TO PROGRAMMING (NAF IT CVTE) HONORS

CRS H9652 GR 10 CR ½ S

Introduction to Programming uses Python as a basis for learning general programming skills. Students 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. Students complete over 60 programs in the course, including both text and graphics/animation programs. In addition to programming, students learn program design, documentation, formal debugging, and testing. Finally, students examine career opportunities in programming. *Prerequisite: Enrollment in the NAF IT Academy.* ✓ *School to Career requirement option.*

PRINCIPLES OF IT (CTE) HONORS

CRS H6136 GR 9 CR ½ S

This is the first course students take in the STEM Information Technology pathway. It 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 network topology, and they set up an email client/server connection. Students also consider contemporary issues such as security, privacy, and technological inequality. Finally, students explore career opportunities in IT.

Prerequisite: Enrollment in the CTE Program. ✓ *School to Career requirement option.*

PRINCIPLES OF IT (NAF IT CVTE) HONORS

CRS H9653 GR 9 CR ½ S

This is the first course students take in the STEM Information Technology pathway. It 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 network topology, and they set up an email client/server connection. Students also consider contemporary issues such as security, privacy, and technological inequality. Finally, students explore career opportunities in IT.

Prerequisite: Enrollment in the NAF IT Academy ✓ *School to Career requirement option.*

REPLICATING THE FUTURE (NAF IT CVTE) HONORS

CRS H9654 GR 11 CR ½ S

This class will introduce the concept of 3D modeling, prototyping, replication/construction and design to selected students. In addition to producing real prototype projects for each student, The OBJECTIVE or ‘byproduct’ of this course will be to have students self-replicate additional pieces as ‘Kits’ for additional printers for use here in the High School and elsewhere in the District. *Prerequisite: Enrollment in the NAF IT Academy* ✓ *School to Career requirement option.*

ROBOTICS (NAF IT CVTE)

CRS H9656 GR 9

Robotics provides students with the opportunity to apply math and engineering to learn how robots are built, move, and “think.” Students get hands on experience with various robotic technologies currently used at U-Mass Lowell and other colleges; building robots, and developing programs to make them move and learning to use sensors. *Prerequisite: Enrollment in the NAF IT Academy. Completion of a full Algebra I course with a C or better.*

COMPUTER SYSTEMS (NAF IT CVTE) HONORS

CRS H9651 GR 10 CR ½ S

Computer Systems walks students through the intricacies of setting up hardware, installing software, connecting to a network, and connecting to the Internet. Students get hands-on practice upgrading operating systems. They get practice assembling and disassembling computer hardware including peripherals, motherboards, FRUs, and connectors. Students also learn troubleshooting techniques. Finally, students get a chance to explore careers for computer systems professionals. *Prerequisite: Enrollment in the NAF IT Academy*

✓ *School to Career requirement option.*

PROGRAMMING AND WEB DEVELOPMENT I (CTE) HONORS

CRS H9652 GR 9 CR ½ S

Students will learn and demonstrate concepts, fundamentals of programming and web development. This course provides a hands-on introduction to the technical and creative skills of professional programmers and web developers. Students will strengthen their public speaking skills by presenting projects to community leaders. *Prerequisite: Enrollment in the CTE Program.* ✓ *School to Career requirement option.*

COMPUTER NETWORKING (NAF IT CVTE) HONORS

CRS H9650 GR 11 CR ½ S

Computer Networking is a hands-on introduction to peer-to-peer, client/server, and cloud computing networks. The course guides students through all phases of implementing and troubleshooting common TCP/IP Ethernet networks. It covers network components, cables, and connectors, as well as the OSI model, protocols, and topologies. Students implement and troubleshoot a LAN and learn about access issues for WANs. Students also get hands-on experience with cloud computing. Students will strengthen their public speaking skills by presenting projects to community leaders. Finally, students explore opportunities for network-related careers. *Prerequisites: NAF Principles of IT, NAF Intro to Programming and NAF Computer Systems.* ✓ *School to Career requirement option.*

WORLD LANGUAGES

Through the study of a world language, students 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 students 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. The proficiency levels referred to in the individual course descriptions in World Languages are derived from the Proficiency Guidelines developed by ACTFL: the American Council of Teachers of Foreign Language. The proficiency hierarchy begins at the Novice level and proceeds through the Intermediate to the Advanced level.

All students, beginning with the Class of 2016, will be encouraged to take at least two years of a world language in order to meet the 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.

CLASSICAL GREEK I HONORS SEMESTER I CRS H4497 GR 10-12 CR ½ S
After an introductory study of forms and syntax, students will begin to read connected passages of Ancient Greek prose.

CLASSICAL GREEK I HONORS SEMESTER II CRS H4497 GR 10-12 CR ½ S
The history and influence of Ancient Greece are explored in the context of mythology, which students read in Greek as well as in English translation. Students enrolled in this course will receive Honors credit.

CLASSICAL GREEK II HONORS SEMESTER I CRS H4500 GR 10-12 CR ½ S
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

CLASSICAL GREEK II HONORS SEMESTER II CRS H4500 GR 10-12 CR ½ S
Greek society, social attitudes and philosophical concepts are studied through primary text and translations of the tragedies of Aeschylus, Sophocles and Euripides. Students enrolled in this course will receive Honors credit. *Prerequisite: Passing grade in Classical Greek I Honors.*

CLASSICAL GREEK III HONORS SEMESTER I CRS H4499 GR 11-12 CR ½ S
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.

CLASSICAL GREEK III HONORS SEMESTER II CRS H4499 GR 11-12 CR ½ S
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. Students enrolled in this course will receive Honors credit.

FRENCH I HONORS SEMESTER I CRS H4403 GR 9-12 CR ½ S
French I will teach enough basic vocabulary for students to enjoy taking part in everyday conversation. Students 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 student to write paragraphs in French.

FRENCH I HONORS SEMESTER II CRS H4403 GR 9-12 CR ½ S
Studies about French-speaking people in Canada, France and other parts of the world where French is spoken are stressed in the culture component. In the Honors level classes; students must complete one original project. Students will reach a communication proficiency level of Advanced Low. *Prerequisite: Grade of B- or better in previous year's English class for current HHS students; recommendation of a Middle School teacher for entering freshmen.*

FRENCH I CP SEMESTER I CRS H4405 GR 9-12 CR ½ S
French I, teaches enough basic vocabulary for students to enjoy taking part in everyday conversation. Students 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 student to write paragraphs in French.

FRENCH I CP SEMESTER II CRS H4405 GR 9-12 CR ½ S
Studies about French-speaking people in Canada, France and other parts of the world where French is spoken are stressed in the culture component. Students will reach a communication proficiency level of Novice Mid.

FRENCH II HONORS SEMESTER I CRS H4407 GR 9-12 CR ½ S
In French II, the student will review and extend the skills of listening, speaking, reading and writing learned in French. There will be readings and discussions of French history and French contributions to art, science and business, as well as comparisons of French life today with our own.

FRENCH II HONORS SEMESTER II CRS H4407 GR 9-12 CR ½ S
The student will be required to present an oral project on some aspect of French culture. Students will reach a communication proficiency level of Advanced Mid. *Prerequisite: Grade of B- or better in French I and recommendation of French I teacher.*

FRENCH II CP SEMESTER I CRS H4409 GR 9-12 CR ½ S
In French II, the student will review the skills of listening, speaking, reading, and writing that were learned in French I, and will extend the knowledge in each of these skill areas.

FRENCH II CP SEMESTER II CRS H4409 GR 9-12 CR ½ S
There will be readings and discussions of French history, and French contributions to art, science, and business, as well as comparisons of French life today with our own. Students will reach a communication proficiency level of Advanced Low. *Prerequisite: Passing grade in French I*

FRENCH III HONORS SEMESTER I CRS H4411 GR 10-12 CR ½ S
More extensive reading is used for class discussion and free compositions. Further study of French civilization is offered.

FRENCH III HONORS SEMESTER II CRS H4411 GR 10-12 CR ½ S
A review of grammatical principles is stressed. Students will reach a communication proficiency level of Advanced Mid. *Prerequisite: Grade of B- or better in French II or passing grade in French II Honors and recommendation of French II teacher.*

FRENCH IV HONORS SEMESTER I CRS H4415 GR 11-12 CR ½ S
French IV Honors is conducted in French, and emphasis is placed on the attainment of fluency in the use of French, both oral and written. The course includes a study of advanced French grammar, vocabulary building, advanced oral and written composition, and a comprehensive survey of French culture and civilization.

FRENCH IV HONORS SEMESTER II CRS H4415 GR 11-12 CR ½ S
Students will participate in dramatic skits to illustrate their communicative competencies. A play and a novel are read. Students will reach a communication proficiency level of Advanced High. *Prerequisite: Passing grade in French III Honors*

GERMAN I HONORS SEMESTER I CRS H4421 GR 9-12 CR ½ S
German I Honors concentrates on students using German in real life situations. The basic skills of reading, writing and speaking German are practiced.

GERMAN I HONORS SEMESTER II CRS H4421 GR 9-12 CR ½ S
In the Honors level class, students must complete one geography project and some oral presentations in German commensurate with topics handled in each chapter. Students will reach a proficiency level of Advanced Low. *Prerequisite: Grade of B- or better in previous year's English class for current HHS students; recommendation of a Middle School teacher for entering freshmen.*

GERMAN I CP SEMESTER I CRS H4423 GR 9-12 CR ½ S
German I concentrates on preparing students to use the German language in real life situations.

GERMAN I CP SEMESTER II CRS H4423 GR 9-12 CR ½ S
The basic skills of speaking, reading and writing German are practiced. Students will reach a communication proficiency level of Novice Mid.

GERMAN II HONORS SEMESTER I CRS H4425 GR 9-12 CR ½ S
German II reinforces and reviews the basic skills learned in the first year and carries the student forward in the study of the language. Basic skills expand, and the student is able to use the language in speaking, reading, and writing with more facility.

GERMAN II HONORS SEMESTER II CRS H4425 GR 9-12 CR ½ S
An increasing respect and understanding for German culture will be acquired. In the Honors level, students will be required to present oral role-plays and presentations commensurate with topics at hand in each chapter and write dialogues of increasing difficulty. Students will reach a communication proficiency level of Advanced Mid. *Prerequisite: Grade of B- or better in German I or passing grade in German I Honors and recommendation of German I teacher.*

GERMAN II CP SEMESTER I CRS H4427 GR 9-12 CR ½ S
German II reinforces and reviews the basic skills learned in the first year and carries the student forward in the study of the language. Basic skills expand, and the student is able to use the language in speaking, reading, and writing with more facility.

GERMAN II CP **SEMESTER II** **CRS H4427** **GR 9-12** **CR ½** **S**
An increasing respect and understanding for German culture will be acquired. Students will reach a communication proficiency level of Advanced Low. *Prerequisite: Passing grade in German I.*

GERMAN III HONORS **SEMESTER I** **CRS H4429** **GR 10-12** **CR ½** **S**
Further emphasis is placed on understanding and speaking by means of the systematic preparation of written and oral compositions. Review of the fundamentals of grammar, reading of short stories, poetry, and song lyrics and more advanced studies of syntax are included. Students will study aspects of German Culture.

GERMAN III HONORS **SEMESTER II** **CRS H4429** **GR 10-12** **CR ½** **S**
In the Honors level, students will write and present role-plays. The student will reach a communication proficiency level of Advanced Mid. *Prerequisite: Grade of B- or better in German II or passing grade in German II Honors and recommendation of German II teacher.*

GERMAN IV HONORS **SEMESTER I** **CRS H4431** **GR 11-12** **CR ½** **S**
German IV Honors is conducted in German, accompanied by a more detailed study of syntax and word formation. Written composition in German is assigned regularly. Students will write and present role-plays. Students will study aspects of German art/architecture, German Culture and history, songs, lyrics, and poetry.

GERMAN IV HONORS **SEMESTER II** **CRS H4431** **GR 11-12** **CR ½** **S**
There is more extensive reading involving selections from authors such as Brothers Grimm/Eric Kaestner. Students will reach a communication proficiency level of Advanced High. *Prerequisite: Passing grade in German III Honors.*

GERMAN AP **CRS H4434** **GR 12** **CR 1** **Y**
The AP German Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP German Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in German. The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

ITALIAN I HONORS **SEMESTER I** **CRS H4435** **GR 9-12** **CR ½** **S**
In Italian I, students 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. Students will be required to complete a personal project.

ITALIAN I HONORS **SEMESTER II** **CRS H4435** **GR 9-12** **CR ½** **S**
Students will continue to develop their vocabulary and knowledge of grammar. In the Honors level, students will be required to complete a project on their family. Students will reach a communication proficiency level of Advanced Low. *Prerequisite: Grade of B- or better in previous year's English class for current HHS students; recommendation of Middle School language teacher for entering freshmen.*

ITALIAN I CP **SEMESTER I** **CRS H4437** **GR 9-12** **CR ½** **S**
In Italian I, students learn to carry on simple conversations. As vocabulary is built, students 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. Students will be required to complete a personal project.

ITALIAN I CP **SEMESTER II** **CRS H4437** **GR 9-12** **CR ½** **S**
Students will reach a communication proficiency level of Novice Mid. Students will continue to develop their vocabulary and knowledge of the grammar. They will be required to complete a project on their family.

ITALIAN II HONORS **SEMESTER I** **CRS H4439** **GR 9-12** **CR ½** **S**
The student will review the basic skills of speaking, writing and reading learned in the first year study of the language. As vocabulary increases, the student will discuss topics in greater detail, and will use acquired knowledge of grammar to write in both the present and past tenses. The students will be required to write an imaginary pen pal letter and write an essay on their daily routine using reflexive verbs.

ITALIAN II HONORS **SEMESTER II** **CRS H4439** **GR 9-12** **CR ½** **S**
The students will read "Un Estate Tutta Diversa." The customs and traditions of Italy will also be emphasized. Students will reach a communication proficiency level of Advanced Mid. *Prerequisite: Grade of B- or better in Italian I or passing grade in Italian I Honors and recommendation of Italian I teacher.*

ITALIAN II CP **SEMESTER I** **CRS H4441** **GR 9-12** **CR ½** **S**
The student will review the basic skills of speaking, writing and reading learned in the first year study of the language. As vocabulary increases, the student will discuss topics in greater detail, and will use acquired knowledge of grammar to write in both the present and past tenses. The students will be required to write an imaginary pen pal letter and also write an essay on their daily routine using reflexive verbs.

ITALIAN II CP **SEMESTER II** **CRS H4441** **GR 9-12** **CR ½** **S**
Students will read “Un Estate Tutta Diversa.” Customs and traditions of Italy will also be emphasized. Students will reach a communication proficiency level of Advanced Low. **Prerequisite: Passing grade in Italian I.**

ITALIAN III HONORS **SEMESTER I** **CRS H4443** **GR 10-12** **CR ½** **S**
The student 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.

ITALIAN III HONORS **SEMESTER II** **CRS H4443** **GR 10-12** **CR ½** **S**
The student will continue the study of the geographic regions of Italy, as well as be introduced to the history and politics of the country. In the Honors level, the student will present an oral project and write a research paper. The student will reach a communication proficiency level of Advanced Mid. **Prerequisite: Grade of B- or better in Italian II or passing grade in Italian II Honors and recommendation of Italian II teacher.**

ITALIAN IV HONORS **SEMESTER I** **CRS H4445** **GR 11-12** **CR ½** **S**
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. Students will give oral presentations as well as participate in discussions of various topics. Vocabulary building is accomplished through conversational readings dealing with contemporary situations.

ITALIAN IV HONORS **SEMESTER II** **CRS H4445** **GR 11-12** **CR ½** **S**
Emphasize Italian culture and geography by studying the history, traditions, people and stories of various regions. Students will read parts of “Non Soltanto Un Baule” and “Uffa!” The student will reach a communication proficiency level of Advanced Low. **Prerequisite: Passing grade in Italian III Honors.**

ITALIAN AP **CRS H** **GR 12** **CR 1** **Y**
The AP Italian Course provides students with an opportunity to improve their proficiency by immersing them into a classroom conducted exclusively in the Italian language. Students are given many different opportunities to use their knowledge of the Italian language to communicate with one another. Students taking this course will be required to take the Advanced Placement exam.

LATIN I HONORS **SEMESTER I** **CRS H4483** **GR 9-12** **CR ½** **S**
Through the study of Latin, students will learn how a language works, and how changing the ending of a word can change its meaning. In a short time, they will read and write short paragraphs. At the same time, students will be taught how to think in an orderly way, and how to expand English vocabulary.

LATIN I HONORS **SEMESTER II** **CRS H4483** **GR 9-12** **CR ½** **S**
They will be introduced to the mythology of ancient Rome. A further benefit of Latin I is that students will be prepared to begin the study of a modern world language and Classical Greek. Students will reach a communication proficiency level of Advanced Low. **Prerequisite: Grade of B- or better in previous year's English class for current HHS students.**

LATIN II HONORS **SEMESTER I** **CRS H4487** **GR 9-12** **CR ½** **S**
In Latin II Honors, the student will continue the study of how Latin works. After a review of the concepts learned in the first year, the student will begin the reading of continuous prose.

LATIN II HONORS **SEMESTER II** **CRS H4487** **GR 9-12** **CR ½** **S**
English vocabulary will be increased, and the student will learn more about the life and customs of the Roman people. Students will reach a communication proficiency level of Advanced Mid. **Prerequisite: Passing grade in Latin I Honors or grade of B- or better in Latin I and recommendation of teacher.**

LATIN III HONORS **SEMESTER I** **CRS H4491** **GR 10-12** **CR ½** **S**
The Latin III honors course is designed for students who have shown exemplary skills in their first two years of study. The course is a prerequisite for students who wish to take AP Latin: Vergil the following year. Students will begin with a rapid review of 1st and 2nd year grammar through Caesar’s *Gallic Wars* and the *Letters of Pliny the Younger*.

LATIN III HONORS **SEMESTER II** **CRS H4491** **GR 10-12** **CR ½** **S**
The second half of the year will focus on an introduction to the *Aeneid* of Vergil. Through a detailed reading of Book I, students will become familiar with the literary techniques and meter of Vergil as well as the cultural, social, and political context of the

Aeneid. **Prerequisite:** Passing grade in Latin II Honors or grade of B+ in Latin II and recommendation of teacher.

LATIN III HONORS ACCELERATED SEMESTER I CRS H4490 GR 11-12 CR ½ S

The Latin III honors accelerated course is designed for students who have shown exemplary skills in their first two years of study. The course is a prerequisite for students who wish to take AP Latin: Vergil the following year or Latin IV Honors. Students will begin with a rapid review of 1st and 2nd year grammar through Caesar's *Gallic Wars* and *The Letters of Pliny the Younger*.

LATIN III HONORS ACCELERATED SEMESTER II CRS H4490 GR 11-12 CR ½ S

The second half of the year will focus on an introduction to the *Aeneid* of Vergil. Through a detailed reading of Book I, students will become familiar with the literary techniques and meter of Vergil as well as the cultural, social, and political context of the *Aeneid*. **Prerequisite:** Passing grade of 85 or better in Latin II and recommendation of Latin teacher.

LATIN IV HONORS SEMESTER I CRS H4493 GR 11-12 CR ½ S

A rapid review of all aspects of Latin grammar is followed by readings from Vergil, Martial, and Catullus.

LATIN IV HONORS SEMESTER II CRS H4493 GR 11-12 CR ½ S

The mechanics of Latin poetry and figures of speech are stressed. Students will reach a communication proficiency level of Advanced High. **Prerequisite:** Passing grade in Latin III Honors and recommendation of teacher.

LATIN AP: VERGIL CRS H4496 GR 12 CR 1 Y

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*. Students 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 analyses, 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. **Prerequisite:** Grade of B- or better in Latin III Honors or passing grade in Latin IV Honors and recommendation of teacher.

SPANISH I HONORS SEMESTER I CRS H4461 GR 9-12 CR ½ S

In Spanish I, the student 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.

SPANISH I HONORS SEMESTER II CRS H4461 GR 9-12 CR ½ S

Emphasis will also be placed on the culture of Latin American countries where Spanish is spoken. In the Honors level class the student will be required to complete one project and to write one research paper about Latin American culture. Students will reach a communication proficiency level of Advanced Low. **Prerequisite:** Grade of B- or better in previous year's English class for current HHS students; recommendation of Middle School English teacher for entering freshmen.

SPANISH I CP SEMESTER I CRS H4463 GR 9-12 CR ½ S

In Spanish I, the student 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.

SPANISH I CP SEMESTER II CRS H4463 GR 9-12 CR ½ S

Emphasis will also be placed on the culture of Latin American countries where Spanish is spoken. Students will reach a communication proficiency level of Novice Mid.

SPANISH II HONORS SEMESTER I CRS H4465 GR 9-12 CR ½ S

Honors Spanish II offers the student a classroom environment where Spanish is spoken at all times. Reading and writing skills will be further developed through short stories, narratives and compositions. Oral proficiency will be enhanced through small group work involving such activities as a fashion show, dining in a restaurant, and shopping at a mall.

SPANISH II HONORS SEMESTER II CRS H4465 GR 9-12 CR ½ S

In the Honors level, students will present an oral project and write a research paper. Students will reach a communication proficiency level of Advanced Mid. **Prerequisite:** Grade of B- or better in Spanish I or passing grade in Spanish I Honors, and recommendation of a Spanish I teacher.

SPANISH II CP SEMESTER I CRS H4467 GR 9-12 CR ½ S

In Spanish II, students 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.

SPANISH II CP SEMESTER II CRS H4467 GR 9-12 CR ½ S

Writing skills will be further developed through periodic compositions. Students will gain an understanding of the thoughts, beliefs, traditions and values of the people of the Hispanic world. Students will reach a communication proficiency level of Advanced Low. **Prerequisite:** Passing grade in Spanish I.

SPANISH III HONORS SEMESTER I CRS H4469 GR 10-12 CR ½ S
Honors Spanish III offers the student a total 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, articles and a novel.

SPANISH III HONORS SEMESTER II CRS H4469 GR 10-12 CR ½ S
The writing of compositions is expanded. Cultural projects in the target language are an integral part of the course. In the Honors level, the student must present an oral project. The student will reach a communication proficiency level of Advanced Mid. *Prerequisite: Grade of B- or better in Spanish II or passing grade in Spanish II Honors and recommendation of a Spanish II teacher.*

SPANISH IV HONORS SEMESTER I CRS H4473 GR 11-12 CR ½ S
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.

SPANISH IV HONORS SEMESTER II CRS H4473 GR 11-12 CR ½ S
The course is conducted exclusively in Spanish. Students will reach a communication proficiency level of Advanced High level. *Prerequisite: Passing grade in Spanish III Honors.*

SPANISH LANGUAGE & COMPOSITION AP CRS H4761 GR 11-12 CR 1 Y
Spanish follows the prescribed curriculum for the Spanish Language Examination. The course is conducted in Spanish, and the student is expected to respond and converse on various topics in Spanish. Students who select AP Spanish must take the Examination in Spanish Language. *Prerequisite: Grade of B or better in Spanish III Honors or passing grade in Spanish IV Honors or Spanish for Natives III and recommendation from teacher.*

SPANISH FOR NATIVE SPEAKERS I SEMESTER I CRS H4755 GR 9-12 CR ½ S
This course is open to native Spanish speakers who are interested in learning to read, write and speak academic Spanish.

SPANISH FOR NATIVE SPEAKERS I SEMESTER II CRS H4755 GR 9-12 CR ½ S
The concentration is on furthering reading, writing and grammar skills with an introduction to literature from Latin America. *Prerequisite: Basic knowledge of written Spanish grammar and general oral competency.*

SPANISH FOR NATIVE SPEAKERS II SEMESTER I CRS H4757 GR 9-12 CR ½ S
This course continues the grammar, reading and writing skills introduced in Spanish for native speakers. This course will focus on the literature and culture of central and South America.

SPANISH FOR NATIVE SPEAKERS II SEMESTER II CRS H4757 GR 9-12 CR ½ S
An emphasis is placed on sentence structure and paragraph organization, as well as compositions based on descriptions, narrations and comparison/contrast. Also included is a continued study of literary forms with an introduction to the novel. *Prerequisite: passing grade in Spanish for Native Speakers I.*

SPANISH FOR NATIVE SPEAKERS III SEMESTER I CRS H4759 GR 9-12 CR ½ S
In the third year of Spanish for Native speakers, emphasis is placed on expanding writing skills through the incorporation of more complex grammatical forms.

SPANISH FOR NATIVE SPEAKERS III SEMESTER II CRS H4759 GR 9-12 CR ½ S
In literature, the focus is on studies of specific Spanish authors using anthologies of their work. *Prerequisite: Passing grade in Spanish for Native Speakers II*

ENGLISH LANGUAGE EDUCATION

The English Language Education 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 students 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 students 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.

ELE READING COMPREHENSION I SEMESTER I CRS H7330 GR 9-10 CR ½ S

Newcomer ELs at grade level proficiency in their native countries of origin, and designated as Level 1-2 as per the WIDA Model Placement Assessment at the time of enrollment, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 1 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the first semester of ELE Reading Comprehension I include, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION I SEMESTER II CRS H7330 GR 9-10 CR ½ S

Students enrolled in ELE Reading Comprehension I, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. Newcomer ELs at grade level proficiency in their native countries of origin, and designated as Level 1-2 as per the WIDA Model Placement Assessment at the time of enrollment, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 1 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the second semester of ELE Reading Comprehension I, include the creation of poetry, a unit on drama, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION I SEMESTER I CRS H7336 GR 11-12 CR ½ S

Newcomer ELs at grade level proficiency in their native countries of origin, and designated as Level 1-2 as per the WIDA Model Placement Assessment at the time of enrollment, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 1 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the first semester of ELE Reading Comprehension I include, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION I SEMESTER II CRS H7336 GR 11-12 CR ½ S

Students enrolled in ELE Reading Comprehension I, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. Newcomer ELs at grade level proficiency in their native countries of origin, and designated as Level 1-2 as per the WIDA Model Placement Assessment at the time of enrollment, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 1 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the second semester of ELE Reading Comprehension I, include the creation of poetry, a unit on drama, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE WRITING I SEMESTER I CRS H7331 GR 9-10 CR ½ S

The course is paired with the Reading Comprehension I course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the first semester of ELE Writing I include, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. Specific components of the first semester of ELE Writing I include the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE WRITING I SEMESTER II CRS H7331 GR 9-10 CR ½ S

Students enrolled in ELE Writing I, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. The course is paired with the Reading Comprehension I course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the second semester of ELE Writing I, include the creation of poetry, a unit on drama, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE WRITING I**SEMESTER I CRS H7339 GR 11-12 CR ½ S**

The course is paired with the Reading Comprehension I course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. Specific components of the first semester of ELE Writing I include the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE WRITING I**SEMESTER II CRS H7339 GR 11-12 CR ½ S**

Students enrolled in ELE Writing I, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. The course is paired with the Reading Comprehension I course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. Specific components of the second semester of ELE Writing I, include the creation of poetry, a unit on drama, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE READING COMPREHENSION II**SEMESTER I CRS H7350 GR 9-10 CR ½ S**

Second year or Level 2 ELs at grade level proficiency in their native countries of origin, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 2 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. This is a Double Block with ELE Writing. Specific components of the first semester of ELE Reading Comprehension II include, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION II**SEMESTER II CRS H7350 GR 9-10 CR ½ S**

Students enrolled in ELE Reading Comprehension II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. Second year or Level 2 ELs at grade level proficiency in their native countries of origin, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 2 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the second semester of ELE Reading Comprehension II, include the creation of poetry, a unit on drama, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION II**SEMESTER I CRS H7332 GR 11-12 CR ½ S**

Second year or Level 2 ELs at grade level proficiency in their native countries of origin, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 2 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the first semester of ELE Reading Comprehension II include, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION II**SEMESTER II CRS H7332 GR 11-12 CR ½ S**

Students enrolled in ELE Reading Comprehension II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. Second year or Level 2 ELs at grade level proficiency in their native countries of origin, engage in intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 2 ELs access meaning in texts through intensive skill development in the analysis of context clues, understanding of elements of text, and in use of multiple resources to retrieve meaning from academic text. ELs study the conveying of meaning through text for different audiences and purposes in literature, media, research, and technology. Specific components of the second semester of ELE Reading Comprehension II, include the creation of poetry, a unit on drama, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Writing.

ELE WRITING II**SEMESTER I CRS H7351 GR 9-10 CR ½ S**

The course is paired with the Reading Comprehension II course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. Specific components of the first semester of ELE Writing II include, the creation of narrative

writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE WRITING II SEMESTER II CRS H7351 GR 9-10 CR ½ S

Students enrolled in ELE Writing II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. The course is paired with the Reading Comprehension II course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. Specific components of the first semester of ELE Writing II include the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE WRITING II SEMESTER I CRS H7340 GR 11-12 CR ½ S

The course is paired with the Reading Comprehension II course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature. Specific components of the first semester of ELE Writing II include, the creation of narrative writing, a unit on shorter works of literature, and the rigorous analysis of a contemporary novel. This is a Double Block with ELE Reading.

ELE WRITING II SEMESTER II CRS H7340 GR 11-12 CR ½ S

The course is paired with the Reading Comprehension II course. It provides intensive instruction in writing as the measurable outcome of experimentation with learned vocabulary and language resulting from understanding of text to text, text to self, and text to world connections. Students must master academic conventions of English in writing for specific purpose and audience. Work products developed throughout the year include narrative, persuasive, comparative, and creative writing in alignment with the CCSS in ELA for language, communication, and literature.

ELE READING COMPREHENSION III SEMESTER I CRS H7370 GR 9-10 CR ½ S

Students determined to meet the established WIDA and District ELE Program criteria for Level 3 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 3 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students are expected to close read for deep understanding, implications for broader perspectives, and to substantiate claims. Specific components of the first semester of ELE Reading Comprehension III, include the creation of poetry, a unit on drama, and the rigorous analysis of two contemporary novels. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION III SEMESTER II CRS H7370 GR 9-10 CR ½ S

Students determined to meet the established WIDA and District ELE Program criteria for Level 3 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 3 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students are expected to close read for deep understanding, implications for broader perspectives, and to substantiate claims. Specific components of the second semester of ELE Reading Comprehension III, include the creation of poetry, a unit on drama, and the rigorous analysis of two contemporary novels. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION III SEMESTER I CRS H7333 GR 11-12 CR ½ S

Students enrolled in ELD Reading Comprehension III, Semester I, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. Students determined to meet the established WIDA and District ELE Program criteria for Level 3 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 3 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students are expected to close read for deep understanding, implications for broader perspectives, and to substantiate claims. Specific components of the first semester of ELE Reading Comprehension III, include the creation of poetry, a unit on drama, and the rigorous analysis of two contemporary novels. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION III**SEMESTER II CRS H7333 GR 11-12 CR ½ S**

Students enrolled in ELD Reading Comprehension III, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. Students determined to meet the established WIDA and District ELE Program criteria for Level 3 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 3 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students are expected to close read for deep understanding, implications for broader perspectives, and to substantiate claims. Specific components of the second semester of ELE Reading Comprehension III, include the creation of poetry, a unit on drama, and the rigorous analysis of two contemporary novels. This is a Double Block with ELE Writing.

ELE WRITING III**SEMESTER I CRS H7371 GR 9-10 CR ½ S**

This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students engage in the writing process to produce multiple drafts, learn to peer edit, revise multiple drafts, respond to, and provide feedback to classmates, and to produce narrative, persuasive, research, and creative writing directed toward meeting SSCC College and Career Ready mastery of academic writing. Specific components of the first semester of ELE Writing III, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE WRITING III**SEMESTER II CRS H7371 GR 9-10 CR ½ S**

This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students engage in the writing process to produce multiple drafts, learn to peer edit, revise multiple drafts, respond to, and provide feedback to classmates, and to produce narrative, persuasive, research, and creative writing directed toward meeting SSCC College and Career Ready mastery of academic writing. Specific components of the first semester of ELE Writing III, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE WRITING III**SEMESTER I CRS H7341 GR 11-12 CR ½ S**

Students enrolled in ELE Writing III, Semester I, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students engage in the writing process to produce multiple drafts, learn to peer edit, revise multiple drafts, respond to, and provide feedback to classmates, and to produce narrative, persuasive, research, and creative writing directed toward meeting SSCC College and Career Ready mastery of academic writing. Specific components of the first semester of ELE Writing III, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE WRITING III**SEMESTER II CRS H7341 GR 11-12 CR ½ S**

Students enrolled in ELE Writing III, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students engage in the writing process to produce multiple drafts, learn to peer edit, revise multiple drafts, respond to, and provide feedback to classmates, and to produce narrative, persuasive, research, and creative writing directed toward meeting SSCC College and Career Ready mastery of academic writing. Specific components of the second semester of ELE Writing III, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE READING COMPREHENSION IV**SEMESTER I CRS H7335 GR 9-10 CR ½ S**

Students determined to meet the established WIDA and District ELE Program criteria for Level 4 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 4 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students close read for deep understanding, implications for broader perspectives, and to substantiate claims. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION IV**SEMESTER II CRS H7335 GR 9-10 CR ½ S**

Students determined to meet the established WIDA and District ELE Program criteria for Level 4 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 4 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students

close read for deep understanding, implications for broader perspectives, and to substantiate claims. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION IV SEMESTER I CRS H7337 GR 11-12 CR ½ S

Students determined to meet the established WIDA and District ELE Program criteria for Level 4 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 4 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students close read for deep understanding, implications for broader perspectives, and to substantiate claims. This is a Double Block with ELE Writing.

ELE READING COMPREHENSION IV SEMESTER II CRS H7337 GR 11-12 CR ½ S

Students determined to meet the established WIDA and District ELE Program criteria for Level 4 classification standards, engage in grade level intensive academic vocabulary, phrasal, and discourse development through complex text. In alignment with grade level standards-based expectations, Level 4 ELs navigate meaning in complex academic texts through intensive skill development in the analysis of theme, plot, setting, point of view, character analysis and understanding of elements of text for different audiences and purposes. Students become independent learners through the use of multiple resources to retrieve meaning from academic text. Students close read for deep understanding, implications for broader perspectives, and to substantiate claims. This is a Double Block with ELE Writing.

ELE WRITING IV SEMESTER I CRS H7334 GR 9-10 CR ½ S

This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students will engage in the writing process to produce multiple drafts, learn to peer edit, revise second drafts, respond to, and provide feedback to classmates on their writing. Level 4 ELs develop writing portfolios including research papers, position papers, daily journal entries and response to literature pieces; analysis of text to text, text to self, and text to world essays; and original creative writing across genres. Students use technological forms of media such as Prezi, Glogster, Power Point, Edmotto, You Tube, Vimeo, and other student generated mediums for expression to showcase their mastery of academic English in meeting SSCC College and Career Ready mastery of academic writing. Specific components of the first semester of ELE Writing IV, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE WRITING IV SEMESTER II CRS H7334 GR 9-10 CR ½ S

Students enrolled in ELE Writing IV, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students will engage in the writing process to produce multiple drafts, learn to peer edit, revise second drafts, respond to, and provide feedback to classmates on their writing. Level 4 ELs develop writing portfolios including research papers, position papers, daily journal entries and response to literature pieces; analysis of text to text, text to self, and text to world essays; and original creative writing across genres. Students use technological forms of media such as Prezi, Glogster, Power Point, Edmotto, You Tube, Vimeo, and other student generated mediums for expression to showcase their mastery of academic English in meeting SSCC College and Career Ready mastery of academic writing. Specific components of the first semester of ELE Writing IV, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE WRITING IV SEMESTER I CRS H7352 GR 11-12 CR ½ S

This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students will engage in the writing process to produce multiple drafts, learn to peer edit, revise second drafts, respond to, and provide feedback to classmates on their writing. Level 4 ELs develop writing portfolios including research papers, position papers, daily journal entries and response to literature pieces; analysis of text to text, text to self, and text to world essays; and original creative writing across genres. Students use technological forms of media such as Prezi, Glogster, Power Point, Edmotto, You Tube, Vimeo, and other student generated mediums for expression to showcase their mastery of academic English in meeting SSCC College and Career Ready mastery of academic writing. Specific components of the second semester of ELE Writing III, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE WRITING IV SEMESTER II CRS H7352 GR 11-12 CR ½ S

Students enrolled in ELE Writing II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course provides an increased emphasis upon independent creative and other writing styles resulting from a higher level of reading comprehension and verbal expression. English construction and conventions are emphasized for mastery of grade level MLA style writing for research and literary analysis. Students will engage in the writing process to produce multiple drafts, learn to peer edit, revise second drafts, respond to, and provide feedback to classmates on their writing. Level 4 ELs develop writing

portfolios including research papers, position papers, daily journal entries and response to literature pieces; analysis of text to text, text to self, and text to world essays; and original creative writing across genres. Students use technological forms of media such as Prezi, Glogster, Power Point, Edmodo, You Tube, Vimeo, and other student generated mediums for expression to showcase their mastery of academic English in meeting SSCC College and Career Ready mastery of academic writing. Specific components of the second semester of ELE Writing III, include various types and styles of essay writing, in order to meet the standards and criteria of both the WIDA and CCSS. This is a Double Block with ELE Reading.

ELE READING AND WRITING V SEMESTER I CRS H7353 GR 9-10 CR ½ S

This course provides a demanding regimen of English speaking, reading and writing for students who have reached grade level English proficiency in Level 5. Through high interest novels, classics, various genres of literature, Tier 2 and 3 vocabulary development, media sources, and active participation, Level 5 students will develop demanding English reasoning skills. Students will read and write independently and practice direct inquiry from readings around socio-political influences on the author, theme, conflict, style, character development, and purpose. They will develop writing portfolios to include a 5-10 page research paper, position papers, selected journal entries, media rich presentations, and original creative pieces. Students will engage in demanding speaking tasks including debating and presenting via the use of media and technology in meeting the expectations of College and Career Ready mastery of English academic writing.

ELE READING AND WRITING V SEMESTER II CRS H7353 GR 9-10 CR ½ S

Students enrolled in ELE Reading and Writing V, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course provides a demanding regimen of English speaking, reading and writing for students who have reached grade level English proficiency in Level 5. Through high interest novels, classics, various genres of literature, Tier 2 and 3 vocabulary development, media sources, and active participation, Level 5 students will develop demanding English reasoning skills. Students will read and write independently and practice direct inquiry from readings around socio-political influences on the author, theme, conflict, style, character development, and purpose. They will develop writing portfolios to include a 5-10 page research paper, position papers, selected journal entries, media rich presentations, and original creative pieces. Students will engage in demanding speaking tasks including debating and presenting via the use of media and technology in meeting the expectations of College and Career Ready mastery of English academic writing.

ELE READING AND WRITING V SEMESTER I CRS H7338 GR 11-12 CR ½ S

This course provides a demanding regimen of English speaking, reading and writing for students who have reached grade level English proficiency in Level 5. Through high interest novels, classics, various genres of literature, Tier 2 and 3 vocabulary development, media sources, and active participation, Level 5 students will develop demanding English reasoning skills. Students will read and write independently and practice direct inquiry from readings around socio-political influences on the author, theme, conflict, style, character development, and purpose. They will develop writing portfolios to include a 5-10 page research paper, position papers, selected journal entries, media rich presentations, and original creative pieces. Students will engage in demanding speaking tasks including debating and presenting via the use of media and technology in meeting the expectations of College and Career Ready mastery of English academic writing.

ELE READING AND WRITING V SEMESTER II CRS H7338 GR 11-12 CR ½ S

Students enrolled in ELE Reading and Writing V, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course provides a demanding regimen of English speaking, reading and writing for students who have reached grade level English proficiency in Level 5. Through high interest novels, classics, various genres of literature, Tier 2 and 3 vocabulary development, media sources, and active participation, Level 5 students will develop demanding English reasoning skills. Students will read and write independently and practice direct inquiry from readings around socio-political influences on the author, theme, conflict, style, character development, and purpose. They will develop writing portfolios to include a 5-10 page research paper, position papers, selected journal entries, media rich presentations, and original creative pieces. Students will engage in demanding speaking tasks including debating and presenting via the use of media and technology in meeting the expectations of College and Career Ready mastery of English academic writing.

ELE WORLD HISTORY I CP SEMESTER I CRS H1108 GR 9-10 CR ½ S

This content/ELE course is designed to parallel the freshman course in the area of world history, from ancient times to the Industrial Revolution. The students will review skills in geography to understand historical, social and economic development. Units will include: the first civilizations of the world, emergence of the modern world, democracy and nationalism in Europe and the Industrial Revolution. The completion of this course satisfies one of the three credits required in the area of social studies. 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.

ELE WORLD HISTORY I CP SEMESTER II CRS H1108 GR 9-10 CR ½ S

Students enrolled in ELE World History I College Prep, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This content/ELE course is designed to parallel the freshman course in the area of world history, from ancient times to the Industrial Revolution. The students will review skills in geography to understand historical, social and economic development. Units will include: the first civilizations of the world, emergence of the modern world, democracy and nationalism in Europe and the Industrial Revolution. The completion of this course satisfies one of the three credits required in the area

of social studies. 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.

ELE WORLD HISTORY II CP SEMESTER I CRS H1114 GR 10-12 CR ½ S

This is a continuation of ELE World History I. The units of the course: imperialism and colonization, war, revolution and efforts for peace in the 20th century, economic, technological and cultural changes in the modern world. The completion of this course satisfies one of the three credits required in the area of social studies. 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. *Prerequisite: Passing grade in ELE World History I.*

ELE WORLD HISTORY II CP SEMESTER II CRS H1114 GR 10-12 CR ½ S

Students enrolled in ELE World History II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This is a continuation of ELE World History I. The units of the course: imperialism and colonization, war, revolution and efforts for peace in the 20th century, economic, technological and cultural changes in the modern world. The completion of this course satisfies one of the three credits required in the area of social studies. 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. *Prerequisite: Passing grade in ELE World History I.*

ELE U.S. HISTORY II CP SEMESTER I CRS H1122 GR 11-12 CR ½ S

This course is geared to the student who must take US History to graduate, but has demonstrated a limited English proficiency in content material. A review of major historical issues and social studies skills will be covered. Students qualifying for entrance into College Preparatory Modern U.S. History will be expected to: (1) cover the material contained in the Massachusetts Framework; (2) use many different materials, mostly print; (3) write essays and short papers; (4) write research paper(s); (5) devote adequate time to their homework assignments; (6) make class presentations and; (7) work on those academic skills that will be necessary for success in college.

Prerequisite: Grade of C or better in History 2 and recommendation of teacher.

ELE U.S. HISTORY II CP SEMESTER II CRS H1122 GR 11-12 CR ½ S

Students enrolled in ELE U.S. History II, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This course is geared to the student who must take US History to graduate, but has demonstrated a limited English proficiency in content material. A review of major historical issues and social studies skills will be covered. Students qualifying for entrance into College Preparatory Modern U.S. History will be expected to: (1) cover the material contained in the Massachusetts Framework; (2) use many different materials, mostly print; (3) write essays and short papers; (4) write research paper(s); (5) devote adequate time to their homework assignments; (6) make class presentations and; (7) work on those academic skills that will be necessary for success in college. *Prerequisite: Grade of C or better in History 2 and recommendation of teacher.*

ELE ALGEBRA I CP SEMESTER I CRS H2277 GR 9-11 CR ½ S

This Algebra I A course is intended for students who have experienced continuing difficulties with mathematics and require a modified pace to acquire necessary skills. While reviewing necessary pre-algebra skills, this course will cover the first half of the Algebra I curriculum. Content includes tools of algebra; functions & their graphs; solving, graphing, and writing linear equations; parallel and perpendicular lines; data; real numbers and their properties; simplification of radical expressions; ratio/percent/proportion; probability, and MCAS preparation. A variety of mathematical models, calculators, and real-life contexts are utilized to help develop conceptual understandings of the concepts. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. In order to achieve all Algebra standards, this course extends into the following year when students are expected to take Part B.

ELE ALGEBRA I CP SEMESTER II CRS H2277 GR 9-11 CR ½ S

Students enrolled in ELE Algebra I, Semester II, will enhance and refine the skills they acquired during semester one as well as build upon that skill set in other valuable ways. This Algebra I A course is intended for students who have experienced continuing difficulties with mathematics and require a modified pace to acquire necessary skills. While reviewing necessary pre-algebra skills, this course will cover the first half of the Algebra I curriculum. Content includes tools of algebra; functions & their graphs; solving, graphing, and writing linear equations; parallel and perpendicular lines; data; real numbers and their properties; simplification of radical expressions; ratio/percent/proportion; probability, and MCAS preparation. A variety of mathematical models, calculators, and real-life contexts are utilized to help develop conceptual understandings of the concepts. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. In order to achieve all Algebra standards, this course extends into the following year when students are expected to take Part B.

ELE FOUNDATIONS OF ALGEBRA I SEMESTER I CRS H2275 GR 10-12 CR ½ S

This course is an extension of Algebra I Part A. Students will continue to work at strengthening their prior Algebra skills and learn additional topics covered in a complete Algebra I course. New content will include inequalities, systems of equations and inequalities, exponential functions, radical equations, polynomials, rational expressions and functions, data and scatter plots, completing the square,

factoring, solving polynomial equations, and MCAS preparation. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. **Prerequisite: Successful completion of Algebra IA.**

ELE FOUNDATIONS OF ALGEBRA I SEMESTER II CRS H2275 GR 10-12 CR ½ S

This course is an extension of Algebra I Part A. Students will continue to work at strengthening their prior Algebra skills and learn additional topics covered in a complete Algebra I course. New content will include inequalities, systems of equations and inequalities, exponential functions, radical equations, polynomials, rational expressions and functions, data and scatter plots, completing the square, factoring, solving polynomial equations, and MCAS preparation. The development of math language and academic terminology consistent with Algebra is a focus. A TI 83 or TI 84 graphing calculator is recommended. **Prerequisite: Successful completion of Algebra IA.**

ELE GEOMETRY CP SEMESTER I CRS H2279 GR 10-12 CR ½ S

This course is a continuation of the study of the number system begun in Algebra I. The content covered includes a review of the fundamental concepts of Algebra I followed by the study of quadratic equations, complex numbers, exponential and logarithmic functions, polynomial functions, and the binomial theorem, systems of equations and inequalities, and matrices. The development of math language and academic terminology consistent with geometry is a focus. A TI 83 or TI 84 graphing calculator is required.

ELE GEOMETRY CP SEMESTER II CRS H2279 GR 10-12 CR ½ S

This course is a continuation of the study of the number system begun in Algebra I. The content covered includes a review of the fundamental concepts of Algebra I followed by the study of quadratic equations, complex numbers, exponential and logarithmic functions, polynomial functions, and the binomial theorem, systems of equations and inequalities, and matrices. The development of math language and academic terminology consistent with geometry is a focus. A TI 83 or TI 84 graphing calculator is required.

ELE BIOLOGY I SEMESTER I CRS H7343 GR 9-12 CR ½ S

This biology content/ELE course is designed to parallel the semester 1 freshman course in the area of biology. It covers the following topics: cell structures, biochemistry, enzymes, photosynthesis, and cellular respiration. 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 introduces newcomers to biology in order to help prepare them for the Biology MCAS, which will be taken at the end of ELE Biology II. **Only for ELL Students level 1 or 2**

ELE BIOLOGY I SEMESTER II CRS H7343 GR 9-12 CR ½ S

This biology content/ELE course is designed to parallel the freshman course in the area of biology. It covers the following topics: cell cycle, mitosis, meiosis, DNA structure, protein synthesis, genetic inheritance, evolution, ecology, and human anatomy and physiology. 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 introduces newcomers to biology in order to help prepare them for the Biology MCAS, which will be taken at the end of ELE Biology II. Upon completion of ELE Biology IB and ACCESS scores, students leveled 1 and 2 should be recommended for ELE Biology II. Students leveled 3 and above should be recommended for Biology CP or Biology Honors. **Only for ELL Students level 1 or 2**

ELE BIOLOGY II SEMESTER I CRS H9617 GR 9-12 CR ½ S

This course expands upon topics introduced in ELE Biology I, with the assumption that students have increased content knowledge and English proficiency. It covers the following topics: cell structures, biochemistry, enzymes, photosynthesis, and cellular respiration, with an increased emphasis on laboratory investigations. 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. Students will prepare for the June MCAS. **Prerequisite: ELE Biology I. Only for ELL Students level 1 or 2**

ELE BIOLOGY II SEMESTER II CRS H9617 GR 9-12 CR ½ S

This course expands upon topics introduced in ELE Biology I, with the assumption that students have increased content knowledge and English proficiency. It covers the following topics: cell cycle, mitosis, meiosis, DNA structure, protein synthesis, genetic inheritance, evolution, ecology, and human anatomy and physiology, with an increased emphasis on laboratory investigation. 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. Students will prepare for the June MCAS. **Prerequisite: ELE Biology I Only for ELL Students level 1 or 2**

FINE ARTS

VISUAL ARTS

ART EXPLORATION

CRS H5501 GR 9-12 CR ½ S

Basic Foundations in Art is open to all students. The course includes experiences in the use of both two and three-dimensional materials and concentrates on elements of Art and principals of design as they relate to painting, drawing, printmaking, ceramics, sculpture and other media. Students are expected to do outside projects as assigned by the instructor. ***Basic Foundations in Art is a required course for all Visual Arts electives.***

STUDIO DRAWING

CRS H5505 GR 9-12 CR ½ S

Students 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. Students will demonstrate proficiency in a variety of drawing approaches including contour, gesture, and sketch rendering. ***Prerequisite: Basic Foundations in Art is required.***

STUDIO PAINTING

CRS H5507 GR 9-12 CR ½ S

Students will be exposed to painting as a means of expression and a refinement of the visual sense. Each student will demonstrate technical proficiency in a variety of media, including acrylic, watercolor and mixed media. Students will learn all technical aspects of painting including how to mix and prepare paint, choose brushes and stretch canvases. ***Prerequisite: Basic Foundations in Art is required.***

JEWELRY MAKING/METALSMITHING

CRS H5511 GR 10-12 CR ½ S

Jewelry Making concentrates on the manipulation of various materials such as metal, paper and clay to create pieces of jewelry. Basic metal fabrication techniques will be employed, including cold connections and soldering. Solder-less wire jewelry and a variety of non-metal construction procedures will be explored. ***Prerequisite: Passing grade in Basic Foundations in Art.***

ADVANCED JEWELRY/METALSMITHING

CRS H5512 GR 10-12 CR ½ 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. Advanced Jewelry may be elected three times for credit. ***Prerequisite: Passing grade of C in Jewelry I. ✓ School to Career requirement option.***

CERAMICS I

CRS H5513 GR 10-12 CR ½ S

Students 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. Students 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 Basic Foundations in Art.***

CERAMICS II

CRS H5514 GR 10-12 CR ½ S

Ceramics II is open to all students who have successfully completed Ceramics I. Students will be given a variety of assignments meant to sharpen their skills and explore further this three-dimensional art form. Students 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 students.

PHOTOGRAPHY I

CRS H5515 GR 9-12 CR ½ S

Students in Photography I will explore the history of photography, the effect of light on various photosensitive materials, pinhole photography and photographic composition. Students will learn basic camera operation using manual SLR cameras. Basic black and white darkroom procedures and techniques will be explored. ***Prerequisite: Passing grade in Basic Foundations in Art***

PHOTOGRAPHY II

CRS H5517 GR 10-12 CR ½ S

Photography II students are schooled in advanced camera operation such as depth of field, panning and studio lighting. Coursework also includes darkroom skills such as dodging and burning, negative sandwiching and 8 X 10 enlargements. Hand coloring and photo manipulation is used in furthering a students' capacity to use photography as a creative means of expression. ***Prerequisite: Passing grade of a C in Photo I.***

ADVANCED PHOTOGRAPHY

CRS H5518 GR 11-12 CR ½ S

Advanced Photography focuses on the special techniques in black and white, color, and digital imaging used today in photography. Students will intensify their studies and develop techniques in areas such as day and night, portrait, landscape, action and electronic photography. Advanced Photography may be elected four times for credit. ***Prerequisite: Passing grade of a C in Photo I, II.***

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

Art History is open to Juniors or Seniors. This course offers a chronological survey of Global Art from the dawn of civilization to the present time. This course teaches students to understand works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. In addition, this course teaches students visual analysis of works of art, through writing and visual presentations.

STUDIO ART AP**CRS H5527 GR 11-12 CR 1 Y**

This course is designed for students who have a serious interest in art and wish to attend art school or study art in college or university. Student workload is reflective of this college level/advanced placement course. Juniors receive honors credit while seniors 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.*

PRINTMAKING**CRS H5502 GR 9-12 CR ½ S**

In this introductory course, students 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 silk screen will be explored. Specific design problems will enable the student to develop a vehicle for self-expression while learning new methods. *Prerequisite: Passing grade in Basic Foundations in Art.*

DIGITAL DESIGN WORKSHOP I**CRS H9612 GR 10-12 CR ½ S**

This course explores the digital arts. Students will learn to create images that will be altered and manipulated in the digital darkroom, primarily Adobe Photoshop Elements. Use of the digital camera, settings, composition, and editing will be learned. The focus of the course is exploring and working towards proficiency with Photoshop as a tool to edit photographs and create images. From pixel resolution, saving and storing images to using layers and filters, the software will be explored in depth. Focus is on creativity and personal expression through digital imaging.

DIGITAL DESIGN WORKSHOP II**CRS H9613 GR 11-12 CR ½ S**

Students will continue to develop their graphic skills in the digital space as they incorporate branding, ad campaigns, and marketing goals into their practical, hands-on projects. Students will dive deeper into Adobe's Photoshop and Illustrator, covering more advanced topics than in the prerequisite course. *Prerequisite: Digital Design Workshop I*

SCULPTURE & 3-D DESIGN**CRS H5504 GR 10-12 CR ½ S**

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. *Prerequisite: Passing grade in Basic Foundations in Art.*

ILLUSTRATION WORKSHOP**CRS H5510 GR 10-12 CR ½ S**

This course is a study of the major aspects of short story and comic book creation, from inception, illustration, administration, to final production. Students will learn the history of illustration and its influences from popular culture. Through lectures and assignments students will become exposed to and experience the multiple facets of illustration today, such as book illustration, editorial, sequential art, concept art, character development and others. Students will focus on storyboarding, implementation of illustration and design skills, and will ultimately create their own original short stories or comic books. *Prerequisite: Passing grade in Basic Foundations in Art.*

THEATER DESIGN AND STAGE CRAFT**CRS H5597 GR 10-12 CR ½ S**

This will be an exploration of theater design. The student will design and create stage sets for plays and musicals. There will be a hands-on approach; learning to build sets, props, and technical aspects such as light design and sound. Costume design will be included in this overarching introduction to the theater. Students will work on the current theatrical productions put on by the Drama club & classes. *Prerequisite: Passing grade in Basic Foundations in Art. ✓ School to Career requirement option.*

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 students to continue to explore and express their findings. Students will create original works in the disciplines of fine and performing arts.

MUSIC AND PERFORMING ARTS

CHORUS SEMESTER I CRS H5551 GR 9-12 CR ½ S

Mixed Chorus is a Soprano, Alto, Bass (SAB) ensemble, which gives the student 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 students are expected to participate in all performances, including the school musicals. Mixed Chorus may be elected four times for credit if a grade C or better is earned each time.

CHORUS SEMESTER II CRS H5551 GR 9-12 CR 1/2 S

Students in the second semester of Chorus will learn an entirely new set of choral selections for their spring performances. In addition to this new material they will also continue to expand their knowledge of basic music vocabulary, note names, ear training, and rhythm reading. Students will continue to work on basic ensemble skills and individual vocal technique.

CHAMBER CHORUS HONORS SEMESTER I CRS H5559 GR 10-12 CR ½ S

Chamber Chorus is open by audition or permission of the instructor to active Chorus members only. This group offers experiences in vocal ensemble literature of a demanding nature. Homework is required. Required after-school rehearsals are held periodically, and all students are required to participate in all performances. Chamber Chorus may be elected four times for credit. *Students must audition*

CHAMBER CHORUS HONORS SEMESTER II CRS H5559 GR 10-12 CR ½ S

Students in the second semester of Chorus will learn an entirely new set of choral selections for their spring performances. In addition to this new material they will also continue to expand their knowledge of basic music vocabulary, note names, ear training, and rhythm reading. Students will continue to work on basic ensemble skills and individual vocal technique. Specific components of the second semester of choral instruction include tempi and phrasing vocabulary, note names in the bass clef, simple melodic dictation, rhythm reading in ¾ and 6/8 meters, as well as ensemble skills consisting of diction, blend, balance, & dynamics. Students in Chamber Chorus are expected to perform at the appropriate level.

BAND SEMESTER I CRS H5563 GR 9-12 CR ½ S

The band program is open to all students who have previously studied a musical instrument. The program consists of two performing units: Marching and Concert Band. It is expected that students 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 students 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.

BAND SEMESTER II CRS H5563 GR 9-12 CR ½ S

Students enrolled in Band, Semester 2 will continue to develop and refine the techniques and concepts covered in semester one. Performance experiences include Hillies hockey games, St. Patrick's and Memorial Day parades, Spring Concert and Graduation ceremonies. Students enrolled in Band are expected to perform at or above grade level.

JAZZ BAND HONORS SEMESTER I CRS H5565 GR 9-12 CR ½ S

Jazz Band is open to all band students 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 students 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.*

JAZZ BAND HONORS SEMESTER II CRS H5565 GR 9-12 CR ½ S

Students enrolled in Jazz Band Honors, Semester II, will develop the technical and stylistic skills they acquired during semester one. Building on that skill set the second semester of Jazz Band Honors focuses on soloing, improvisation and the finer points of jazz performance style. Students enrolled in Jazz Band Honors are expected to perform at or above grade level. ✓ *School to Career requirement option.*

GUITAR WORKSHOP CRS H5571 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. Students 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! Students are encouraged to bring their own electric or acoustic guitar but some instruments are available. Guitar Workshop may be elected four times for credit.

HISTORY OF ROCK AND ROLL CRS H5572 GR 10-12 CR ½ S

This course focuses on the social development of Rock & Roll in America. Students 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.

KEYBOARD WORKSHOP

CRS H5570 GR 9-12 CR ½ S

In Keyboard Workshop, students will develop keyboard skills in a variety of styles and techniques. Students 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.

INTRODUCTION TO MUSIC SOFTWARE

CRS H5578 GR 10-12 CR ½ S

In this course, students 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. Students 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. Students will also complete a final project, which will test the skills they acquired during the course. Prior musical knowledge is helpful, but not required. ✓ *School to Career requirement option.*

MUSICAL THEATRE

CRS H5579 GR 9-12 CR ½ S

Students will study the basic elements of musical theatre, including acting, singing, and stage movement. They will work on these skills via Theatre Games, Improvisations, Projects, and Skits. In addition they will be exposed to a variety of musical theatre mediums, such as Opera, Operetta, Ballet, and Broadway Musicals. Students will learn to write original stories, scenes, and dialogue. Students will also learn to integrate music into the story-telling process. This course by its nature is collaborative as well as performance and project based.

AV STAGE TECH

CRS H5580 GR 9-12 CR ½ S

This course provides background and training in the field of technical theater across several disciplines. The technical elements of lighting and audio in musical theater and live concert productions are covered. The course covers the basics of acoustical and electronic theory applied to project based, real world scenarios and field experiences. Students will participate in the planning and execution of actual Haverhill High School productions in cooperation with the HHS AV Club. ✓ *School to Career requirement option.*

MUSIC EXPLORATION

CRS H5581 GR 9-12 CR ½ S

This is an introductory survey course for those students who aren't quite sure of 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 using GarageBand, singing, and rhythmic composition using a variety of percussion instruments. By taking this course, students will be exposed to a wide variety of options for expressing themselves musically, and will develop a basic understanding of musical notation and theory.

BUSINESS ACADEMY

ACCOUNTING AND BUSINESS ELECTIVES

ACCOUNTING HONORS

SEMESTER I CRS H6631 GR 11-12 CR ½ S

This Accounting Pilot and Bridge Project uses an integrated approach to teach real-world accounting. Students 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 decisions 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, students 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 4th 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 HONORS

SEMESTER II CRS H6631 GR 11-12 CR ½ S

Students enrolled in the Accounting Honors Semester II, will enhance and refine the skills they acquired during Semester I as well as build upon that skill set in other valuable ways. This Accounting Pilot and Bridge Project uses an integrated approach to teach real-world accounting. Students 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 decisions 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, students 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 4th 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

Students 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. Students will also learn how to write checks and reconcile bank statements. ✓ *School to Career requirement option.*

MONEY MATTERS/PERSONAL FINANCE

CRS H6628 GR 10-12 CR ½ S

This course is designed for upperclassmen who want to learn how to manage their money and prepare for a life free from financial difficulties. Students 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. Students 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.*

BANKING INTERNSHIP

CRS H6629 GR 11-12 CR ½ S

This course is an in-school internship where students will learn first-hand the tasks and responsibilities of a bank teller. Under the supervision of the HHS branch bank manager of Haverhill Bank, students will interact in a positive and professional manner with bank customers. Students will learn to process customer transactions, such as deposits, withdrawals, transfers, loan payments, bank checks, and money orders. Students taking this course will perform various other banking tasks such as balancing ATM transactions, log in mail to be processed, verifying case, and selling/balancing Traveler Cheque inventory. As a result of taking this course, students will be familiar with banking products and services and will learn ethical behavior concerning safeguarding customer privacy and confidentiality. *Prerequisites: Money Matters/Personal Finance, Accounting I/Honors Accounting.* ✓ *School to Career requirement option.*

BUSINESS MARKETING

CRS H6613 GR 9-12 CR ½ S

This course focuses on all aspects of marketing, from its foundations through its functions. Exploration of marketing and 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 students 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.*

SPORTS AND ENTERTAINMENT MARKETING

CRS H12163 GR 10-12 CR ½ S

The field of sports and entertainment management is rapidly growing. Many universities, colleges, and high schools now offer specializations in sports and entertainment management and marketing. Managers create, oversee, and expand the operations of business. The basic principles of management will be taught through this course: leadership, finance, product management, people management, marketing information management, legal and ethical issues, customer relations, sales management, managing change, and career development. *Prerequisite: Business Marketing.* ✓ *School to Career requirement option.*

INTRODUCTION TO HOSPITALITY AND TOURISM

CRS 12159 GR 10-12 CR ½ S

Course Description: Introduction to Travel and Tourism is a one-semester in-depth study of worldwide travel, transportation, and tourism. Students are introduced to the industry as a whole and the job opportunities that are available. The course covers resource allocation, technology, and social, organizational, and technological systems. *Prerequisite: Business Marketing* ✓ *School to Career requirement option.*

DECA is a national association for business/finance/accounting/marketing students and offers students the opportunity to develop their leadership and professional skills. Students will exhibit their understanding of the curriculum described below at the District 3 DECA Competition (January) and Massachusetts DECA competitions (March). DECA activities could take place during evenings and weekends, and parents and students should understand that there are expectations for fundraising in order to substantially reduce the travel costs associated with the competitions. Students who enroll in this course are required to join DECA (no cost), compete in the district and state conferences, and possibly compete at the national level. Students MUST SELECT a competitive event in which they will compete at these conferences. DECA classes can be taken more than once with instructor approval. This class will be taken at the Honors level and students will be required to participate in district and state competitions.

DECA I: BUSINESS MARKETING AND MANAGEMENT

SEMESTER I CRS 12099 GR 11-12 CR ½ S

This is a hands-on business course for students interested in business applications. Students will study the following topics: planning, pricing, entrepreneurship, ownership, management, money handling, risk inventory and purchasing. Students will engage in running their own business which includes but not limited to the school store as well as fundraising events. This course is designed to introduce and develop a basic understanding of marketing. Topics will include the functions and utilities of marketing, the 4 p's marketing mix, SWOT analysis, marketing plan, economic systems and analysis, supply and demand, global marketing, basic job search skills, ethics, teambuilding and leadership and presentation skills. Students will be required to participate in a district level competition. Can be taken more than once with instructor approval. **Can be taken more than once with instructor approval. Prerequisite: Business Marketing,**

ONE course in Hospitality/Tourism, Sports/Entertainment Management, Accounting, Money Matters/Personal Finance, or Advertising and Media. ✓ School to Career requirement option.

DECA II: INNOVATION, LEADERSHIP, AND COMMUNICATION

SEMESTER II CRS 12099 GR 11-12 CR ½ S

The course curriculum is structured on the principles of marketing and entrepreneurship while emphasizing the techniques and principles of human relations, leadership, and business communication, both oral and written. Students will work with outside groups as well as other groups within Haverhill High School. Students will engage in business ventures, community service, group discussions, individual or group projects and presentations. They will use the business concepts they learned in class and apply them in real world business situations. Through the use of technology, student will enhance their presentation and problem solving skills. Students will be required to participate in a state level competition. **Can be taken more than once with instructor approval. Prerequisite: DECA I (and prerequisites) ✓ School to Career requirement option.**

INTRODUCTION TO ECONOMICS

CRS H6625 GR 9-12 CR ½ S

This course will introduce students 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.**

MICROECONOMICS AP

CRS H6627 GR 11-12 CR 1 Y

This course will focus on an in-depth understanding of microeconomics. Students 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. Students who select Economics AP must take the AP test in Microeconomics. **Prerequisite: Introduction to Economics ✓ School to Career requirement option.**

TECHNOLOGY AND BUSINESS ELECTIVES

COMPUTER TECHNOLOGY

CRS H6601 GR 9-12 CR ½ S

Apply technology to business applications! As one of the most important skills for employers, students will explore the value of communication in their personal and professional life. The digital presence and impact of written and visual communication in a technological society will be addressed. Students will create, edit, and publish professional-appearing business documents with clear and concise communication. Creative design, persuasive personal and professional communications will be applied through research, evaluation, validation, written, and oral communication. Leadership development and teamwork skills will be stressed as students work independently and collaboratively. Presentation skills will be developed and modeled for students' master presentation in this course. Preparation of career job search documents/information (employment applications, resume, cover letter, interviewing and the hiring process) will also be covered. This course will help students develop strategies for career success and future goals. Students will also learn to use the programs associated with Google Drive.

WORKPLACE TECHNOLOGY

CRS 10008 GR 10-12 CR ½ S

Workplace technology plays an essential role in how businesses function and communicate with others around the world. Students with workplace technology skills are able to work faster, more accurately and in some cases, in ways previously not possible. In this course you will be introduced to Adobe® Photoshop and Illustrator where you will learn quickly how to design business documents such as business cards and print advertisements. You will learn the skills and know-how to build whatever you need quickly and efficiently. With dedication, you will learn business specific Photoshop/Illustrator projects in no time. This course walks you through such things as setting up your workspace (and what it is), color modes, masking, making a full-page ad and a business card, shortcuts, and others as well! You will not only learn how to use the programs but you will learn how to use the shortcuts to save time. The faster you learn to use shortcuts, the faster you will get your projects done, and that's money saved. **This course will be required to take Advertising and Media Relations.**

ADVERTISING AND MEDIA RELATIONS I (COMPUTER)

SEMESTER I CRS 10202 GR 10-12 CR ½ S

This course will take place in a computer lab. In this course students will get an overview of what to expect when entering the business world. Topics will include advertising, and other business documents. Projects will be completed as individuals and with small groups and include elements of digital graphics used in business such as Photoshop, Microsoft Word and Illustrator. This is a hands on computer course that will expand student's computer, marketing, and advertising knowledge. Students will develop their creative graphic design skills and industry knowledge. We will course will creating ad campaigns for schools, local businesses, etc. Students will use Adobe Photoshop, Adobe Illustrator, and Adobe In Design to complete their work. Students will analyze current advertising trends to create original advertisements. Students will be required to keep an on-line portfolio. **Prerequisite: Workplace Technology ✓ School to Career requirement option.**

ADVERTISING AND MEDIA RELATIONS II (TELEVISION)

SEMESTER II CRS 10202 GR 10-12 CR ½ S

This course will take place in the TV Production studio. Students will create and produce video commercials. Students will use digital and video cameras, sound equipment, and design software programs. Students will continue to analyze current advertising trends in television and radio. Students will be required to keep their on-line portfolio updated. **Prerequisite:** *Workplace Technology, Advertising and Media Relations I.* ✓ *School to Career requirement option.*

GAME DEVELOPMENT AND DESIGN ELECTIVES

GAME DESIGN I

CRS H6636 GR 9-12 CR ½ S

No programming knowledge is required! This is a project-based course that will introduce students to 2D computer game development. Students will be introduced to the GameSalad interface, behaviors, logic, graphics, and sounds. Once you learn a few simple behaviors, you will be ready to start creating your own video games with GameSalad. Students will go through the whole game creation process using GameSalad, teaching exciting steps and tricks in creating platform and RPG games. Students will be required to publish their games(s) to an online Arcade for viewing. **Students may take this class more than once upon approval.** ✓ *School to Career requirement option.*

GAME DESIGN II

CRS H6645 GR 10-12 CR ½ S

There is much more of GameSalad to discover! You will learn more about controlling your game objects, design actions and conditions. Students will practice on Flappy Bird style games and racing games. New behaviors will be introduced as well as advanced tips and tricks. Students will be required to work on a final project during the duration of this class. This will be a professional, publishable game required by the class. **Students may take this class more than once upon approval.** **Prerequisite:** *Game Design I.* ✓ *School to Career requirement option.*

CARTOONING AND 3D ANIMATION

CRS H6634 GR 10-12 CR ½ S

Students will learn how to draw cartoons/animations/sprites on the computer. Students who have had game design can design their own characters (both static and animated) as well gaming graphics such as buildings, powerups, trees, flowers, etc. Other students can learn how to draw on the computer. All students will upload some of their drawings to websites who offer free graphic for game designers and/or graphic designers. Students will begin with pixelated drawings and go into vector graphics. They will create a few 3D graphics. They will also learn how to export their graphics for use in a web page, game, or tee shirt! Students will create assigned graphics and also have the chance to design their own characters. **Students may take this class more than once upon approval.** **Prerequisite:** *Students are encouraged to have taken Game Design I prior to this class but it is not required.* ✓ *School to Career requirement option.*

WEB DEVELOPMENT AND DESIGN ELECTIVES

WEB DEVELOPMENT AND DESIGN I

CRS H6632 GR 9-12 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're 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 develop their own websites for local community / high school organizations and groups. Students will be introduced to HTML, HTML5, CSS3 and JavaScript. Hand coding to start leading to the evaluation and selection of the proper content management system for a final project development. **Students may take this class more than once upon approval.** ✓ *School to Career requirement option.*

WEB DEVELOPMENT AND DESIGN II

CRS H6633 GR 10-12 CR ½ S

This course will continue the students' journey into 21st century Web Design requirements. We will utilize all our resources to research and access cutting edge web design issues. Starting with exploration of Browsers and their impact on webpage SEO, we will also recognize the rapid evolution of web into the mobile device world. We will develop mastery in Content Management Systems and evaluate their effective use. Students will develop JavaScript skills interacting with the computer, the network, recognizing browsers, and responding to client interaction. We will explore the merging of webpage technology and app development. The requirements for a Web oriented career will be explored and continuously evaluated to make our students competitive in this rewarding but challenging environment. **Students may take this class more than once upon approval.** **Prerequisite:** *Web Design and Development I.* ✓ *School to Career requirement option.*

TELEVISION PRODUCTION ELECTIVES

INTRODUCTION TO TELEVISION PRODUCTION

CRS H6637 GR 9-12 CR ½ S

Television Production introduces students to the wide spectrum of information and learning available through the use of television production. Students will experience the steps that are required to develop a television production from the basics of camera operation, sound and file editing, and lighting of sets. Each student will understand the five basic areas of television production that are needed to complete a broadcast segment: producing, directing, recording, scripting, and editing. Students' projects will take place in a studio and on location. ✓ *School to Career requirement option.*

STUDIO TELEVISION PRODUCTION

CRS H6640 GR 10-12 CR ½ S

In this course, students will learn how to effectively produce television programming in the studio. Students will experience the steps that are required to develop a television production, including the basics of camera operation, sound and video editing, and lighting of sets. Students will understand the five basic areas of television production that are needed to complete a television segment: producing, directing, recording, scripting, and editing. **Students may take this class more than once upon approval.** ✓ *School to Career requirement option.*

ADVANCED TELEVISION PRODUCTION

CRS H6638 GR 11-12 CR ½ S

Students will explore more advanced technical and creative skills within a studio and on location. This course requires working both in group and individual situations in the production of quality video segments for cable-cast. Show formats will also be explored, as students will be responsible for a long-term production that will be produced solely by Advanced TV students. **Students may take this class more than once upon approval.** *Prerequisite: Studio Television Production or Introduction to Television Production; any grade of D or below will require approval by the instructor.* ✓ *School to Career requirement option.*

FILM STUDY WORKSHOP

CRS H6639 GR 11-12 CR ½ S

Film Study Workshop is a serious, challenging, and critical investigation of films from different Hollywood eras. Students will learn the basic principles of characterization, dramatic structure, and scene creation through film analysis exercises and develop their own original feature film script from an idea to a first act outline. This class is designed to study the approaches taken by film directors and writers in creating motion pictures. Students will view and analyze films from the silent era to contemporary times. The theme characterization, point of view, and impact on society of each film will be among the topics that students will examine. Research in themes, film genres, production companies, techniques, and classic film figures will also be required. **Students may take this class more than once upon approval.** *Prerequisite: Introduction to Television Production, Advanced Television Production; any grade of D or below will require approval by the instructor.*

FILM SCRIPT

SEMESTER I CRS H0055 GR 11-12 CR ½ S

Film Script: Students will use creative writing skills to create a screenplay. This course focuses on exposure to types of film ideas, story generation, writers' workshop, and the elements of screenplay creation. Students will analyze screenplays, learning the proper format for the creation of structure, dialog, and short composition necessary to complete production. **Students may take this class more than once upon approval.**

FILM CRAFT

SEMESTER II CRS H0055 GR 11-12 CR ½ S

Film Craft: Building from Film Script, this course will focus on the elements of creating a feature film. Throughout this course, students will use their screenplays to learn the craft of direction, cinematography, production design, and editing. The two courses—Film Script and Film Craft, are each 1/2 credit course designed to run together throughout the entire school year. Students will be required to enroll in both classes, which will run in the same period for the entire school year. **Students may take this class more than once upon approval.** *Prerequisite: Film Script*

ADVERTISING AND MEDIA RELATIONS I (COMPUTER)

SEMESTER I CRS 10202 GR 10-12 CR ½ S

This course will take place in a computer lab. In this course students will get an overview of what to expect when entering the business world. Topics will include advertising, and other business documents. Projects will be completed as individuals and with small groups and include elements of digital graphics used in business such as Photoshop, Microsoft Word and Illustrator. This is a hands on computer course that will expand student's computer, marketing, and advertising knowledge. Students will develop their creative graphic design skills and industry knowledge. We will course will creating ad campaigns for schools, local businesses, etc. Students will use Adobe Photoshop, Adobe Illustrator, and Adobe In Design to complete their work. Students will analyze current advertising trends to create original advertisements. Students will be required to keep an on-line portfolio. *Prerequisite: Workplace Technology* ✓ *School to Career requirement option.*

ADVERTISING AND MEDIA RELATIONS II (TELEVISION)

SEMESTER II CRS 10202 GR 10-12 CR ½ S

This course will take place in the TV Production studio. Students will create and produce video commercials. Students will use digital and video cameras, sound equipment, and design software programs. Students will continue to analyze current advertising trends in

television and radio. Students will be required to keep their on-line portfolio updated. *Prerequisite: Workplace Technology, Advertising and Media Relations I.* ✓ *School to Career requirement option.*

CULINARY ARTS ELECTIVES

INTRODUCTION TO FOODS AND NUTRITION

CRS H6671 GR 9-12 CR ½ S

This course will introduce students 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. Students will learn to make effective use of resources when organizing a kitchen, caring for equipment and appliances, and purchasing and storing food. Students 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.*

BAKE SHOP

CRS H6675 GR 10-12 CR ½ S

This course will introduce students to the production of baked goods. Students 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. Students will be actively engaged in learning how to select, store, and prepare a wide variety of breads, **pastries and other bakery products.** *Prerequisite: Introduction to Foods and Nutrition; any grade of D or below will require approval by the instructor.* ✓ *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. Students will learn how food customs have been influenced by the geography and culture of each country. In this course, students 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: Introduction to Foods and Nutrition; any grade of D or below will require approval by the instructor.* ✓ *School to Career requirement option.*

FOOD FOR HEALTH

CRS H6676 GR 10-12 CR ½ S

This course is designed to explore the areas of nutrition and public health that are increasingly affecting our society. Links between diet and conditions such as obesity, diabetes, and other chronic illnesses will be explored. Students will be encouraged to examine their own nutrition through food journaling, understand food nutrition labels, and consider how lifestyles affect food choices. Other related topics in this course include food fads and fallacies, alternative diets and food products, and nutrition related careers. *Prerequisite: Introduction to Foods and Nutrition; any grade of D or below will require approval by the instructor.*

CULINARY ARTS

CRS H6673 GR 10-12 CR ½ S

Students in this course will develop competencies to produce meal and dessert specials to be offered in the school's coffee café. Students 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. Students will be educated in the National Restaurant Association's ServeSafe 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.*

ADVANCED CULINARY ARTS

CRS H6674 GR 10-12 CR ½ S

Students will learn about food management, marketing, sanitation, food costs, and comprehensive methods of food preparation. In addition, students 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. Students will also study hospitality and how it relates to food services. Some students may qualify for a separate internship with a local food preparation establishment. **Students may take this class more than once upon approval.** *Prerequisite: Culinary Arts; any grade of D or below will require approval by the instructor.* ✓ *School to Career requirement option.*

FASHION CONSTRUCTION AND DESIGN ELECTIVES

FASHION I

CRS H6679 GR 10-12 CR ½ S

In this course students 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. Students 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. **Students will be required to purchase materials on their own based on their projects.** ✓ *School to Career requirement option.*

FASHION II

CRS H6681 GR 10-12 CR ½ S

The content of this course builds on the skills acquired in Fashion I. Greater depth in the study of design principles and sewing techniques is provided. In this course, students 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. **Students may take this class more than once upon approval.**
Prerequisite: Fashion I; any grade of D or below will require approval by the instructor. Students will be required to purchase materials on their own based on their projects. ✓ *School to Career requirement option.*

WOODWORKING TECHNOLOGY OR CONSTRUCTION ELECTIVES

INTRODUCTION TO WOODWORKING TECHNOLOGY

CRS H6659 GR 9-12 CR ½ S

This introductory course provides all students, including those who have not had a recent shop class, with the necessary skills to handle hand tools, popular power tools, and machines found in the home. Students will construct projects suited to their individual skill levels. Students must provide their own lock to secure assigned safety equipment and materials. ✓ *School to Career requirement option.*

ADVANCED WOODWORKING TECHNOLOGY

CRS H6666 GR 10-12 CR ½ S

Students will continue machine work and will review the safe use of power machines. Instructions will be given on the band saw, jointer, radial saw, and surface planer. Portable electric tools for all types will be used. Wood-finishing techniques will be taught in greater depth, and projects will be finished according to industry standards. **Prerequisite: Introduction to Wood Technology; any grade of D or below will require approval by the instructor.** ✓ *School to Career requirement option.*

FINE WOODWORKING TECHNOLOGY

CRS H6669 GR 10-12 CR ½ S

Students will research different styles of furniture, with the opportunity to design and create a finished project related to that particular style. The student will incorporate the use of design and print reading, as well as the highlights that distinguish a particular style. Students in this class will train for the required OSHA Certification. They will be trained and given an opportunity to take the certifications exam. Based on a students' project of choice, a particular need for materials or hardware may be called for. If so, the student will have to provide such items. Students must provide their own lock to secure assigned safety equipment and materials. **Prerequisite: Intro to Woodworking Technology, Advanced Woodworking Technology, have a competent understanding of read the tape measure and able to sue project plans to create a finished product; any grade of D or below will require approval by the instructor. Students may be required to purchase additional materials on their own based on their project.** ✓ *School to Career requirement option.*

HOUSE CONSTRUCTION

SEMESTER I CRS H6667 GR 10-12 CR ½ S

Students will become familiar with the operations of house construction and reading and designing house plans (the course could be interrelated with the CAD program on house design). Students will train and test from the Career Safe Academy and upon successful completion will receive the OSHA: Occupational Safety and Health Administration 10-hour safety card. Students will be introduced to the RRP law: Renovation, Repair, and Painting. Students will understand framing layout and construction. Students will become familiar with house styles as well as the operations related to construction and remodeling. Students will learn to identify and use field related equipment and materials. Students will learn to relate to local and national building codes. Students will become familiar with the associated trades related to house construction. In addition, students will be introduced to such concepts as insulation and drywall, and logical designs of bathrooms and kitchens. Students will learn and apply interior trim applications. Students will be introduced to different options of floor and wall coverings. **Prerequisite: Intro to Wood Technology and a competent understanding of reading the tape measure; any grade of D or below will require approval by the instructor. Students must provide their own lock to secure assigned safety equipment and materials.** ✓ *School to Career requirement option.*

HOUSE CONSTRUCTION

SEMESTER II CRS H6667 GR 10-12 CR ½ S

Students will focus on the interior of construction of a house during semester two. Students will be introduced to such concepts as insulation and drywall, and logical designs of bathrooms and kitchens. Students will learn and apply interior trim applications. Students will be introduced to different options of floor and wall coverings. **Prerequisite: Intro to Wood Technology, House Construction I, and a competent understanding of reading the tape measure; any grade of D or below will require approval by the instructor. Students must provide their own lock to secure assigned safety equipment and materials.** ✓ *School to Career requirement option.*

COSMETOLOGY ELECTIVES

COSMETOLOGY I

CRS H6682 GR 11-12 CR ½ S

Cosmetology I is designed to give students an overview of the profession. This is an introductory exploratory course in which students will gain an understanding of the profession and opportunities within the different aspects of the field. This course includes a brief history of cosmetology, exposure to specialties within the profession, practical knowledge of sanitation, basic sectioning and combing on mannequins, proper shampooing methods, and basic hairstyles including braiding and up dos. The purpose of this course is to allow students an opportunity to determine if this is a career they may be interested in pursuing and is open to all students as an elective. **Class may be taken twice upon teacher recommendation. Seniors receive first preference.** ✓ *School to Career requirement option.*

COSMETOLOGY II

CRS H6683 GR 11-12 CR ½ S

Students in this course will focus on skincare and make-up. Topics will include basic facials, tanning, hair removal, and techniques of basic facial make-up. Sanitation processes covered in Cosmetology I will be expanded upon and students will have the opportunity to become Barbicide certified (required). The many careers associated with skin care will be covered and students will learn the requirements of a basic salon/spa business while developing necessary communication and client interaction skills. Successful students will be prepared for an entry-level position at a local salon, spa, tanning salon, or retail make-up counter. **Class may be taken twice upon teacher recommendation. Seniors receive first preference. Prerequisite: Cosmetology I; any grade of D or below will require approval by the instructor.** ✓ *School to Career requirement option.*

WELLNESS

*All students are required to take and pass two semesters of physical education (1 credit) and two semesters of health (1 credit) totaling two credits. All students are required to take and pass Physical Education I. After that, they have the option to choose one of any of the electives that qualify to fulfill their second physical education credit requirement. Students who are to be medically excused require a note from a physician and the student must complete an alternative non-physical assignment. **Students 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. Students are strongly encouraged to bring their own lock and secure their belongings to prevent theft.***

PHYSICAL EDUCATION I

CRS H7726 GR 9-12 CR ½ S

Successful completion of Physical Education I provides students 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. Students participate in basic aquatics to improve the efficiency of their swim strokes via the American Red Cross Swimming Level program and to teach students responsibility and safety around water. An introductory fitness unit, utilizing the Fitness Center, will focus on proper and effective use of the weight and aerobic equipment. Students 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.

HEALTH I

CRS H7729 GR 9-12 CR ½ S

A required course of study for 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. Students participate in an assessment of various areas of wellness: physical, emotional, social, life planning, environmental, spiritual, cultural and intellectual wellness. Students 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: 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. Students will maintain journals and evaluate progress throughout the program.

HEALTH II

CRS H7730 GR 10-12 CR ½ S

A required course of study that focuses on character education, along with the social, emotional, physical and cultural aspects of health. First aid and safety, alcohol and other drug prevention, behavior management, hazing are also addressed. Students will focus on enhancing protective factors to reduce health-compromising behaviors and focus on positive strategies to help students reach their goals. Dating violence and qualities necessary in healthy relationships will be explored. Driving and pedestrian safety will be addressed in this course. This course will also explore various community service organizations and the benefits they offer to our society.

FUNDAMENTALS OF WELLNESS 9

CRS H8766 GR 9-12 CR ½ S

Students are placed in Resource Wellness in accordance with the determination of the IEP Team. Instruction is based on Massachusetts' frameworks and parallels the general education program of studies in Wellness. Concepts covered include communication and interpersonal skills, health assessment, risk and protective factors, behavior management, fitness, decision-making and the inter-relatedness of wellness concepts and healthy lifestyles.

FUNDAMENTALS OF WELLNESS 10

CRS H8767 GR 10-12 CR ½ S

Students are placed in Resource Wellness in accordance with the determination of the IEP Team. Instruction is based on Massachusetts' frameworks and parallels the general education program of studies in Wellness. Concepts covered include communication and interpersonal skills, health assessment, risk and protective factors, behavior management, fitness, decision-making and the inter-relatedness of wellness concepts and healthy lifestyles.

PHYSICAL EDUCATION ELECTIVES

Must take one of the following to earn second required physical education .5 credit.

TEAM SPORTS

CRS H7707 GR 10-12 CR ½ S

Team Sports is a semester course that gives students 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. Students will assess their personal fitness level and explore the role of team sports in their lives.-

PERSONAL HEALTH AND FITNESS

CRS H7712 GR 10-12 CR ½ S

Students will learn the principles of exercising independently, weight management, and disease/illness prevention through physical activity. Facilities used will include the new fitness center, pool, gym, track, and classroom. Students will set personal fitness goals, develop a plan, and work toward successfully achieving those goals.

LIFEGUARDING

CRS H7736 GR 10-12 CR ½ S

Students will take a certified American Red Cross lifeguarding course. Fee may apply if students opt to receive official Red Cross certification.

INDIVIDUAL & NET SPORTS

CRS H7737 GR 10-12 CR ½ S

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, track & field, walking/jogging, table tennis, disc golf, handball, pickle ball, and gymnastics. Students will progressively learn the skills and game strategies for each sport as well as the historical background and terminology. These sports/activities have been chosen to encourage students to participate in physical activity for life and to promote good health and wellness.

YOGA

CRS H7738 GR 10-12 CR ½ S

The course will promote life-long physical activity and to develop an understanding of the benefits of being healthy. In this class, we will utilize yoga practices to become more physically, mentally, energetically, and emotionally fit. This class will present techniques in yoga. Students will learn concepts of physical fitness, identify stress reduction techniques, gain an increased ability to concentrate, and develop a Personal Fitness Plan to support a lifetime of fitness. *Course offering subject to availability of certified instructor.*

WEIGHTLIFTING

CRS H7735 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 students 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, students will monitor and improve their fitness levels by participating in fitness assessments throughout the semester.

ADDITIONAL WELLNESS ELECTIVES

Please note: The following credits do not count toward physical education graduation requirement.

INTRODUCTION TO COACHING

CRS H7715 GR 11-12 CR ½ S

This course is designed for students who have a desire to coach youth sports. Students will learn coaching concepts, practices and safety issues as well as goal setting for season and practice planning. Classroom activities will focus on the NFHS Coaching Education Program. Gym activities will give students the opportunity to plan and implement practices and to coach in competitive events. ✓
School to Career requirement option.

FIRST AID AND CPR

CRS H7713 GR 11-12 CR ½ S

Students will learn First Aid and CPR. Curriculum will be based on the American Red Cross standards. Fee may apply if students receive official Red Cross certification. *Prerequisite – Health I and Health II.* ✓ *School to Career requirement option.*

ADDICTIONS

CRS H7716 GR 11-12 CR ½ S

The study of the nature, causes, and intervention of addiction in relationship to a variety of topics. Historical and sociocultural trends are evaluated in view of current addiction theories. Emphasis is placed upon the relation of addiction to family and work environments, as well as the development of alternate lifestyles.

MARINE CORPS JUNIOR ROTC

MCJROTC I

SEMESTER I CRS H6696 GR 9-12 CR ½ S

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 student 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. Freshmen through seniors are invited to sign up for this elective course. ✓ *School to Career requirement option.*

MCJROTC I

SEMESTER II CRS H6696 GR 9-12 CR ½ S

LE – I semester two will continue to emphasize the USMC Core Values of Honor, Courage and commitment through the study of USMC history from 1775 to 1940, drill and ceremonies, military customs and courtesy, respect for the flag of the United States of America, history of the Pledge of Allegiance, and history of military uniforms. All students are required to wear a military uniform one time per week for both first and second semesters. This is a graded event and the uniforms are provided by the USMC at no cost to the student. *Prerequisite for this course is satisfactory completion of MCJROTC I, semester I.* ✓ *School to Career requirement option.*

MCJROTC II

SEMESTER I CRS H6697 GR 10-12 CR ½ S

LE – II continues where LE – I leaves off by 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 satisfactory completion of MCJROTC I, semesters I and II.* ✓ *School to Career requirement option.*

MCJROTC II

SEMESTER II CRS H6697 GR 10-12 CR ½ S

Semester two continues with more advanced 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. *Prerequisite for this course is satisfactory completion of MCJROTC I, semesters I and II, and MCJROTC II, semester one.* ✓ *School to Career requirement option.*

MCJROTC III

SEMESTER I CRS H6698 GR 11-12 CR ½ S

This course is designed for those students 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. The student may find themselves providing leadership instruction to younger students through demonstration and one on one remedial training. *Prerequisite for this course is satisfactory completion of MCJROTC I and II and recommendation by the Senior Marine Instructor.* ✓ *School to Career requirement option.*

MCJROTC III

SEMESTER II CRS H6698 GR 11-12 CR ½ S

This course continues to develop upon the previously learned skills and continues military history from Vietnam to Desert Storm. 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, students 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. *Prerequisite for the course is satisfactory completion of MCJROTC I and II and MCJROTC III semester I.* ✓ *School to Career requirement option.*

MCJROTC IV

SEMESTER I CRS H6699 GR 12 CR ½ S

This course is the culmination of the previous three years of Leadership Education. The student 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. *Prerequisite for the course is satisfactory completion of MCJROTC I, II and III semesters I and II.* ✓ *School to Career requirement option.*

MCJROTC IV

SEMESTER II CRS H6699 GR 12 CR ½ S

LE – IV cadets will become a role model 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 is the satisfactory completion of both semesters of all previous MCJROTC Leadership Education courses.*** ✓ ***School to Career requirement option.***



VIRTUAL HIGH SCHOOL

Haverhill High School offers online courses through Virtual High School

Virtual High School is a non-profit organization that collaborates with schools to offer online high school courses to students from across the country and around the world. By joining VHS, Haverhill High School has expanded its course offerings by over 200 per semester and year-long courses, including College Prep, Honors, and classes. VHS boasts a 70% pass rate for AP exams, versus the national pass rate of 60%.

Students taking a VHS course are required to log in five times per week, complete all readings and assignments, submit written assignments digitally online, and participate in class discussions with classmates and the teacher via a forum setup. In addition to gaining knowledge about course material, students will also learn valuable skills that will help them in college, such as multimedia presentation skills and effective online research tactics. Classes are offered at no cost to the student.

The successful VHS student is: self-motivated, self-driven, a hard worker, tech savvy, has effective written communication skills, and the ability to learn independently. HHS students take their VHS course as part of their seven course schedule during the day at the high school. A computer area has been established in the library for students enrolled in online courses.

Virtual High School courses are open to sophomores, juniors and seniors. Students may enroll only in courses that are **NOT** offered at HHS or cannot fit into a student's schedule due to a conflict with another course. VHS courses appear on the student's HHS schedule and transcript. Quality points are awarded to VHS courses, and the grades are figured into rank and G.P.A. Students are limited to one VHS course per semester, and to one full credit per year. Students can only carry seven courses each semester.

Please see your guidance counselor if you are interested in a VHS course. Registration is done on a first-come, first-served basis, and space is limited.

VIRTUAL HIGH SCHOOL COURSE OFFERINGS 2017-2018

Virtual High School offers a catalog of full semester courses in the Arts, Foreign Language, Language Arts, Life Skills, Math, Science, Social Studies, Technology and AP Study to students in VHS member schools. Core courses are NCAA accredited. The courses listed are current at the time of publication. Visit our website at www.goVHS.org for the most recent offerings.

AP Courses

AP Biology
AP Calculus AB
AP Calculus BC
AP Chemistry
AP Computer Science A
AP Economics: Micro And Macro
AP English Language & Composition
AP English Literature & Composition
AP European History
AP French Language
AP Government & Politics: US
AP Human Geography
AP Music Theory
AP Physics I
AP Psychology
AP Spanish Language & Culture
AP Statistics
AP U.S. History
AP World History

Arts

American Popular Music*
Art History:
Renaissance to Present*
Caribbean Art History
Creating Art History
History and Pop Music
History of Photography
Music Composition and Arranging*

Music Listening and Critique*

Business

Business and Personal Law
Entrepreneurs: Business Owners of the 3rd Millennium
Entrepreneurship: Starting your own Business*
International Business: An Exploration
Investing in the Stock Market*
Learning to Invest in the Stock Market
Personal Finances*
Statistics and Business Quality Management

Foreign Language

Latin I
Mandarin: Chinese Lang and Culture
Portuguese I
Russian Language and Culture
Spanish Culture and 20th Century Hispanic Literature

Language Arts

101 Ways to Write a Short Story*
20th Century Women Authors
Academic Writing*
Around the World in 80 Days
Creative Writing
Essay Writing
Fantasy and Science Fiction Short Stories
Folklore and Literature of Myth, Magic, and Ritual
Ghoulies, Ghosties, and Long-Legged Beasities*
Horror Writers

Journalism in the Digital Age
Literature of the World
Mythology
Poetry Writing
Screenwriting Fundamentals*
Shakespeare in Films
To Kill a Mockingbird
Young Adult Literature

Life Skills/Health

Career Awareness*
Digital Citizenship*
Employability Skills*
Kindergarten Apprentice Teacher
Now What Will You Do?
Parenting in the 21st Century
Perspectives in Health*
Physical Education: Personal Fitness
Preparing for College
Study Skills +

Math

Algebra I
Algebra II
Calculus Honors
Geometry
Math and Modern Logic Honors
Mathematics of Electricity
Number Theory
Pre-Calculus
Pre-Calculus: Advanced Trigonometry
Statistics Honors

Science

Anatomy and Physiology
Animal Behavior and Zoology
Biochemistry
Bioethics*

Climate Change
Environmental Science
Epidemics
Evolution and the Nature of Science*
Genes and Diseases
Meteorology
Nuclear Physics
Oceanography
Pre-veterinary Medicine
The Human Body

Social Studies

Constitutional Law
Contemporary Issues in American Law and Justice
Criminology
Democracy in America*
Eastern and Western Thought
Economics Honors
Modern Middle East
Peacemaking
Philosophy I
Practical Law
Psychology of Crime
Sociology
Sports and Society
The Glory of Ancient Rome
The Holocaust
World Religions

Computer Science/Technology

Computational Science & Engineering Using Java
Computer Science Honors
Creating Effective PowerPoint Presentations
Engineering Principles

**Multiple sections offered -Appropriate for both High School and Gifted and Talented Middle School Students
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COMPUTER BASED LEARNING (CBL)

VIA GradPoint Courseware

Haverhill High School offers CBL options for:

- Dropout Prevention
- Credit Recovery
- Alternative Instruction

With the built-in Basic Achievement Skills Inventory™ (BASI), you can quickly and easily evaluate student mathematics, reading, and language arts skills for initial placement. Two forms of the test allow you to assess student progress over time.

Complete Core Curricula Available

GradPoint Courseware 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

GradPoint Courseware delivers proven, rigorous core high school curriculum designed to help every student 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 student activity and track performance.

Content Development and Structure

The quality lesson content and design have been developed from research-based, proven instructional strategies. Today thousands of respected authors, noted academics and Pearson people contribute to the educational materials developed by our imprints like Scott Foresman, Prentice Hall and Longman.

GradPoint Courseware is developed based on the quality content these professionals create to bring you a quality digital product that delivers positive results for your students and your district.

SCHOOL COUNSELING PROGRAM

School Counselors provide a variety of student 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 students, as well as parent/guardian evening informational presentations. The administration, counselors, teachers, and students work together to promote the best interests of the school and the individual student.

Students are assigned a school counselor as freshmen and work individually with their counselor throughout their high school career. This system allows the counselor and student 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 student actualize their potential and dreams.

The focus of the school counselor is to work with the students 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 students with the best possible options for all their needs.

Students can make an appointment with their counselor by 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 students on an individual and group basis. Some featured group presentations for students and parents include:

- Freshman Orientation Program (students)
- PSAT Presentations (students and parents)
- Junior Class Presentations ~ includes career and college exploration (students and parents)
- Senior Class Presentations ~ college and post-secondary planning (students and parents)
- Course Selection and Registration Meetings (students)
- College Financing Seminars (students and parents)
- College Fair (students and parents)
- ASVAB Career Exploration Exam (students)
- MCAS Presentations

Counselors will maintain regular contact with faculty and staff to ensure progress of each student and will assist the student in selecting an educational program that is appropriate for his/her educational and vocational interests. Counselors will work with the student 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 students work collaboratively in selecting an appropriate post-secondary path. Counselors assist students 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 Recommendations
- College visits and interviews
- Financial Aid/Scholarships

Students are encouraged to utilize the resources available in the school counseling office to assist them in this process. The School Counseling Suite has computers available to the students to aid them in obtaining information about colleges and careers.

NAVIANCE & FAMILY CONNECTION

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

Family Connection allows students and families to:

- | | |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. 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 |
| 2. Research Colleges | ➤ Compare your GPA, standardized test scores, and other statistics to actual historical data from HHS for students who have applied to your college of interest in the past. |
| 3. College Visits | ➤ Keep track of which college admissions representatives are visiting HHS and register yourself right online for these visits |
| 4. Scholarship Information | ➤ See what's available to HHS students for national, state, and local scholarships |
| 5. Stay in Touch | ➤ Counselors can send regular emails and reminders to share information with the student and parent about upcoming meetings, events, deadlines, and scholarship information. |

To access our school's Family Connection site, please visit: <http://connection.naviance.com/haverhill>

Each student and parent will have his or her own access code to this site. Counselors can activate student or parent accounts and/or re-set passwords for anyone needing access to Naviance.

STANDARDIZED TESTING

The following is a summary of the testing programs made available to the students through the School Counseling office. Most of this testing is voluntary; however, students 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 students must do their research to see what is required by each school or organization.

Information about testing will be available on the HHS School Counseling website and on Family Connection; however, it is the responsibility of the student 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 students 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 students 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.com.
- **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 student 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 students' 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 student MUST take the optional writing section. Visit www.actstudent.org for additional information, practice tests, and registration information.
- **Exams (AP)** ~ AP exams are offered in May to all students 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 16 AP courses offered at HHS, with the opportunity to take any not offered at HHS online through Virtual High School. See your counselor for more information.

DUAL ENROLLMENT & COLLEGE CREDIT

Students 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**. Students 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. Students 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 student'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. Students may attend the college representative visits by obtaining passes in the school counseling office one day prior to the event. Study or classroom teachers must sign passes giving a student permission to miss class in order for students to attend these visits.

NCAA – NATIONAL COLLEGIATE ATHLETIC ASSOCIATION

Student-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. Students should work closely with their coaches and school counselor 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 student-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 students register?

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

How do students register?

Students must register online at the NCAA Eligibility Center. The link for this site is accessible through the HHS School Counseling website and on Naviance Family Connection site. Students 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 students have the registration fee waived?

Students who have received a waiver for the SAT or ACT are eligible for a waiver of the registration fee. The student's counselor must submit confirmation of the student's test fee waiver. Please see your counselor for more 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 students 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
- www.fafsa.ed.gov
- www.collegeboard.com

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 Student 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 students. 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 HHS Naviance Family Connection and can be accessed by anyone in the HHS community. It is the responsibility of the student 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 HHS students: In addition to the scholarships on Naviance, numerous local scholarships are also available specifically for Haverhill students at the high school. These scholarships are published yearly on our HHS website with instructions for students 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.

HAVERHILL HIGH SCHOOL ATHLETICS INFORMATION



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

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

Fall Season

Cheerleading (Football)	Cross-Country, B/G
Crew, B/G	Football, (V/JV/FR)
Field Hockey, (V/JV/FR)	Soccer, B/G, (V/JV)
Golf	Volleyball, G (V/JV/FR)
Swimming, G	

Winter Season

Basketball, B/G (V/JV/FR)	Wrestling (V/JV)
Ice Hockey, B (V/JV), G (V)	Skiing, B/G
Swimming, B	Indoor Track, B/G
Cheerleading (Basketball)	Gymnastics

Spring Season

Baseball, (V/JV/FR)	Softball, (V/JV/FR)
Tennis, B/G	Track and Field, B/G
Volleyball, B (V/JV)	Lacrosse, B/G, (V/JV)
Crew, B/G	

Participation Requirements

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

- **Participation Packet** – includes HHS 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 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.
- **User Fee** - \$100 per student, per sport / Fee due prior to start of season
- **Waivers** - Student-athletes who qualify for free lunch will have all user fees waived. Student-athletes who qualify for reduced lunch will pay a reduced fee of \$50 per student/per sport. Families must apply through the school's official free/reduced lunch application process. Application material can be found on the www.hillies.org under [Food Services](#). Waiver requests will be completely confidential.
- **Refunds** - Student-athletes who do not make a team will be issued a complete refund. All other refund requests will be reviewed on a case-by-case basis.

Haverhill's student-athletes have enjoyed substantial success, boasting All-New England Champions, MIAA State Champions and Boston Globe All-Scholastic recipients. More importantly, students who participate in Athletics are given the opportunity to broaden their educational experience through team membership, Sportsmanship, competition, hard work, and commitment.

ACADEMIC REQUIREMENTS FOR ELIGIBILITY IN ATHLETICS

A student 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, students are required to have earned credits for the previous academic year equivalent to four full year courses. A student cannot at any time represent Haverhill High School unless that student is enrolled on a full-time basis. The academic eligibility of all students shall be considered as official and determined only on the date when the report cards for that marking period have been issued to the parents of all students. Incomplete grades will not be counted toward eligibility. The rules below also apply to academic eligibility:

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

***Please see page 96 for information on: NCAA – NATIONAL COLLEGIATE ATHLETIC ASSOCIATION**



HAVERHILL HIGH SCHOOL DIRECTORY

(978) 374-5700

Position	Name	Extension
Principal	Beth Kitsos	x1101 or 1102
Associate Principal	Kevin McLaughlin	x1101 or 1102
Assistant Principal, Grade 9	Daniel Faircloth	x1140
Assistant Principal, Grade 10	Michael Rossetti	x1121
Assistant Principal, Grades 11 and 12	Matthew Steinberg	x1105
Athletic Director	Thomas O'Brien	x1141
Attendance Supervisor	Lorna Marchant	x1118
English	Jared Fulgoni, Asst. Supt. Carol Quinney, Dean	(978) 374-5740 x4216
English Language Education	Dr. Darshan Thakkar, Director of Strategy and Accountability	(978) 374-5740
Business Academy	Sue Finn, Dean	x4735
Fine Arts Classical Academy	Ellen Mullane, Dean	x4410/4412
Guidance & Student Support Services	Jami Dion, Director	x1134
Library / Media Services	Henry Toromoreno	x1143
Mathematics	Patricia Juranovits, Supervisor Daniel Tanguay, Dean	(978) 420-1904 X4352
Physical Education and Wellness	Thomas O'Brien	x1141
Science, Technology and Engineering	Kevin Higginbottom, Supervisor Edward Roberts, Dean	(978) 420-1976 x4106
Social Studies	Rashaun Martin, Supervisor Tom Jordan, Dean	(978) 420-1927 x4319
Special Education	Kyle Riley	(978) 374-3435
World Languages	Rashaun Martin, Supervisor	(978) 420-1927

<http://www.haverhill-ps.org> or www.hillies.org

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.