Alexander Hamilton Junior- Senior High School

# Course Catalog

2025-2026

# *The Hamilton Promise*

We prepare our students for a ***life of impact*** through an innovative and exemplary education rooted in ***scholarship*** and ***character***.

# *Alexander Hamilton Junior-Senior High School*

**98 South Goodwin Avenue • Elmsford, NY 10523 • (914) 592-7311**

**Principal's Office ~ ext. 7311**
Dr. Jeffrey A. Capuano, Principal
Ms. Deborah Font, Administrative Assistant

**Assistant Principal's Office ~ ext. 7313**
Ms. Arissa Vargas, Assistant Principal
Ms. Kristin Squires, Administrative Assistant

**Attendance Office ~ ext. 6349**
Ms. Angie Rodriguez

**Department Chairs**
Ms. Carrie Silva – English Chairperson
Jo-Ann Leis – Math Chairperson
Mr. Kevin Budzynski – Social Studies Chairperson
Mr. Rich Macleish – Science Chairperson
Mr. Robert Pollok – Physical Education and Health Chairperson and Athletic Director
Ms. Erica Carrasquillo – English as a New Language Coordinator
Ms. Sarah Dwyer – Special Education Chairperson

**Counseling Office**
Ms. Monica Ahern, Counselor M-Z (ext. 4884)
Ms. Stephanie Luccioni, Guidance Chair A-M (ext. 8598)
Ms. Sabrina Rouse, Administrative Assistant (ext. 8532)

The *Course Catalog* is designed to help students and parents make informed decisions about course selections; it is intended to supplement the information received from teachers and counselors regarding courses available at *Alexander Hamilton Junior-Senior High School*. We encourage you to select courses that will not only meet the minimum graduation requirements but will challenge you to reach your full potential. Please know that the school counselors, administration, faculty, and staff are always available to assist you in your efforts to achieve your academic goals at AHHS.

Please feel free to contact any of the above-listed staff with questions regarding course selections. Chairs, counselors, or administration can be contacted via email:

first initial last name@eufsd.org
(Ex: Dr. Jeff Capuano can be reached at jcapuano@eufsd.org)

# Graduation Requirements

**All students are required to pass the following courses and Regents exams in order to graduate with a New York State Regents diploma**.

| SUBJECT AREA | REGENTS DIPLOMA REQUIREMENTS | | ADDITIONAL REQUIREMENTS FOR ADVANCED REGENTS DIPLOMA * | |
|---|---|---|---|---|
| | ***COURSES*** | ***EXAMS*** | ***COURSES*** | ***EXAMS*** |
| **English** | 4 course credits | 1 Regents exam (11th) | | |
| **Social Studies** | 4 course credits:<br>Global-9, Global-10,<br>US History-11,<br>Econ & Gov-12 | 2 Regents exams:<br>Global (10th)<br>US History (11th) | | |
| **Math** | 3 course credits | 1 Regents exam:<br>Algebra (8th or 9th) | | 2 additional Regents exams:<br>Geometry<br>Algebra 2 |
| **Science** | 3 course credits:<br>1 Biology course,<br>1 Phys Sci course,<br>1 elective Sci course | 1 Regents exam (Biology, Chemistry, or Physics) | All 3 science courses must be Regents level courses. | 2nd Regents exam |
| **Language** | 1 course credit | | 2 additional course credits in the same language | 1 locally-developed language exam |
| **The Arts** | 1 course credit in Art or Music | | | |
| **Health** | ½ course credit | | | |
| **P.E.** | 2 course credits | | | |
| **Electives** | 3.5 credits | | | |

**** Candidates for the Advanced Regents Diploma must complete <u>one</u> of the following:***

- Language Other Than English: 3 credits

## NEW YORK STATE EDUCATION DEPARTMENT
## Testing Requirements

| | |
|---|---|
| **Regents Diploma** | Score 65 or above on 5 required Regents exams. |
| **Regents Diploma (Through Appeal)** | Score 65 or above on 4 Regents exams with a score of 62-64 on 1 exam for which an appeal can be granted. |
| **Regents Diploma With Honors** | Score 90 or above on 5 required Regents exams. |
| **Regents Diploma with Advanced Designation** | Score 65 or above on 8 Regents exams and 1 locally-developed language exam. |
| **Local Diploma** | Available to classified students. Students must earn a score of 55 or better on 5 required Regents exams. |

Note: The Safety Net is available for classified students. Additional pathways to graduation are available to all students. Please see your counselor for more information.

# Alexander Hamilton High School Requirements

***In addition to New York State requirements, Alexander Hamilton High School requires the following:***

- All students in grades 9 -11 must be enrolled in a minimum of 6 classes plus P.E.
- Seniors must enroll in a minimum of 5 classes plus P.E. (though they are encouraged to take more).
- All students must complete 22 units of credit in order to graduate.

***Alexander Hamilton High School maintains promotional requirements that apply to all students.*** These requirements refer to the minimum number of credits that must be earned and courses that must be passed in order to advance to the next grade level. Grade level determines eligibility for privileges such as off campus lunch, free periods, prom, etc. A student must earn:

- 5 credits to enter 10th grade; at least 3 credits must be in English, Social Studies, Math, and Science
- 11 credits to enter 11th grade; at least 7 credits must be in English, Social Studies, Math, and Science
- 17 credits to enter 12th grade; at least 11 credits must be in English, Social Studies, Math, and Science

# What do colleges look for?

Most importantly, colleges will look at the ***STRENGTH OF YOUR TRANSCRIPT***. A transcript is a record of all high school courses that you took and final grades earned in each course. In other words, colleges will want to know what courses you chose and how well you performed in them.

Colleges will also consider: ACT/SAT scores, letters of recommendation, your grade-point-average (GPA), extracurricular activities, and work experience. The GPA is calculated based on grades earned in 12th (semester 1), 11th, 10th and 9th grade courses (including courses taken for high school credit in 8th grade).

***Many college entrance requirements consist of the following:***

| **Subject** | **Most Colleges** | **Competitive Colleges** |
|---|---|---|
| English | 4 years | 4-5 years |
| Social Studies | 4 years | 4-5 years |
| Math | 4 years | 4-5 years |
| Science | 4 years | 4-5 years |
| World Language | 3 years | 3-5 years |

# Special Programs

## AP Courses

**Advanced Placement (AP)** courses are rigorous college level courses offered to all students who meet the criteria. At Hamilton, AP courses are available in **English Language and Composition, English Literature, World History, US History and Government, US Government and Politics, European History, Calculus AB, Computer Science A, Biology, and Psychology**. In order to enroll in an AP course, all students must:

- Complete the application process (where required) in March of the previous year;
- Meet prerequisite and other criteria as indicated in the course description;
- Commit to taking the AP exam upon the completion of the course in May, which requires student payment of a $100.00 fee.

## College Credit Courses

Alexander Hamilton High School also offers additional courses for college credit:

AP English Language and Composition (ECE 101)
English 12 College Credit (ECE 101)
AP English Literature and Composition (ECE 102)
College Statistics
College Algebra and Trigonometry
College Precalculus
AP Calculus
AP Computer Science A
Introduction to Python
College Spanish

Upon successful completion of the course, students may be granted 3 or 4 college credits from SUNY Westchester (Westchester Community College) or Syracuse University. These credits may be transferable to the college the student attends. Additional college fees are required. The cost per credit hour is $69 for SUNY Westchester and $115 for Syracuse University.

# Honors Courses

Honors courses are available in **English 9, English 10, Global History and Geography 9, Global History and Geography 10, Geometry,** and **Algebra 2**. These advanced level courses are for highly motivated students who are prepared to handle more rigorous course work. Typically, teacher recommendation and a minimum grade requirement on prerequisite courses are required for enrollment in honors courses. Please refer to each course description for more detailed information and requirements.

# Electives

Our desire is not merely to provide our students with required, or "core," courses but to offer them opportunities to study courses of interest. This allows our students an opportunity not only to excel in areas of personal interest but also to build a solid transcript.

For this reason, Alexander Hamilton High School encourages all of our students to participate in these high-interest, yet academically rigorous, courses. Courses are offered in the creative and performing arts, health and wellness, and many content areas.

# Course Selection Process & Timeline

The course selection process provides students an opportunity to choose among a broad range of courses. Counselors work closely with students in making the most appropriate selections based on interests, abilities and post high school plans. Students are encouraged to carefully consider their choices by consulting with teachers and parents. The entire master schedule of the high school is driven by students' final choices for the next school year. Therefore, most changes will not be permitted once the current school year ends in June. Please know that we will make every effort to accommodate all student requests; however, we cannot guarantee that all requests can be honored.

**February/March**:

- Students request preliminary courses for the following year and discuss their preliminary choices with parents, teachers, and counselors.
- All students are encouraged to take an appropriately challenging courseload.

**April/May**:

- Teachers are notified of student choices and determine whether choices are appropriate.
- A list of each student's preliminary course requests (with teacher amendments) will be available for parental review.
- Students will have a final opportunity to make changes in course requests for next year.

**August**:

- Final student schedules will be available on the parent portal.
- Students will have an opportunity to make corrections prior to the opening of school only in the event of a schedule conflict or if a graduation requirement and/or lunch are missing from the schedule.

# Add/Drop Policy

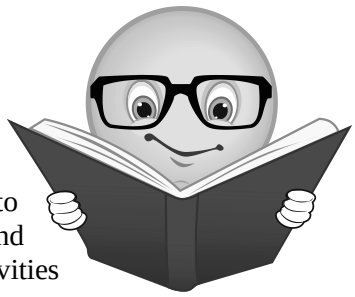
Students are expected to remain committed to choices made during the course selection process. Schedule changes will be made only in the event of a conflict or if a graduation requirement and/or lunch are missing from the schedule. Requests for changes of class periods, teachers, preferred lunch times, or electives will not be honored.

Dropping courses is strongly discouraged. However, with parent, teacher, and administrative approval, a student may drop a course as indicated below. The student must attend the class until he/she is officially removed by the counselor and after the appropriate paperwork is completed.

A full-year course may be dropped during the first 20 class days of the school year. A half-year course may be dropped during the first 10 class days of the school year. After that time, a WF (*withdrew failing*) or a WP (*withdrew passing*) will be noted on the student's transcript. Students may also add a semester course during this 10-day period. No course may be dropped after the 2nd quarter (full year course) or the 1st quarter of a half-year course.

**Note: If a student changes level, the grades earned in the original class will be included and tabulated in the final average. If the level change occurs during the first 20 class days in a full-year course or during the first 10 days of a half-year course, grades will not be included in the quarterly average.**

# ENGLISH



The English curriculum encourages students to improve their critical thinking skills through the study of classic, traditional, and contemporary literature. The repertoire of literature engages students in critical analysis of meaning, form, style, and structure. Students are required to write analytic and creative pieces to focus on the importance of meaning, organization, development, language use, and conventions. They also develop speaking and listening skills through many activities linked to the literature.

All students must take four years of English. At the end of Grade 11, all students must take and pass the New York State English Regents exam. Elective English courses may be taken in addition to the one year of English required in each grade. All students work with fiction and nonfiction as they synthesize information, make meaning, and determine authorial intent.

## COURSE OFFERINGS

**COURSES**

| | |
|---|---|
| **E0700** | **ENGLISH 7** |
| **E0800** | **ENGLISH 8** |
| **E0900** | **ENGLISH 9** |
| **E0900H** | **ENGLISH 9 HONORS** |
| **E1000** | **ENGLISH 10** |
| **E1000H** | **ENGLISH 10 HONORS** |
| **E1100** | **ENGLISH 11** |
| **E1104** | **AP ENGLISH LANGUAGE & COMP.** |
| **E1200** | **ENGLISH 12** |
| **E1205** | **ENGLISH 12 COLLEGE CREDIT** |
| **E1206** | **AP ENGLISH LITERATURE** |

**ELECTIVES**

| | |
|---|---|
| **E0975** | **INTRODUCTION TO DRAMA** |
| **E0920** | **MULTIMEDIA JOURNALISM** |
| **E10601** | **CREATIVE WRITING** |
| **E1030** | **FILM** |
| **E1020** | **GRAPHIC NOVELS** |

**SUPPORT CLASSES**

| | |
|---|---|
| **E0711** | **READING 7** |
| **E0720** | **WRITING LAB 7** |
| **E0810** | **READING 8** |
| **E0820** | **WRITING LAB 8** |
| **E0910** | **READING- HIGH SCHOOL** |
| **E1120** | **WRITING LAB- HIGH SCHOOL** |

| Grade 7 | Grade 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|---|---|---|
| Eng 7 | Eng 8 | Eng 9 | Eng 10 | Eng 11 | English 12<br>English 12CC (ECE 101) |
| | | Eng 9H | Eng 10H | AP Eng Lang (includes ECE 101) | AP Eng Lit (includes ECE 102) |

**E0700 English 7**
**Grade: 7**
**Unit of Credit: 1**

English 7 focuses on the skills required to transition into reading and writing programs at the secondary level. Readings span genres, including fiction, nonfiction, drama, and poetry. Writing instruction focuses on personal narrative, argument, analytical response to texts, expository writing, and MLA-style research projects. Vocabulary, grammar, and mechanics instruction occurs through in-class and independent activities. Students must complete the New York State ELA Assessment for Grade 7 in the spring. Anchor books include Linda Sue Park's *A Long Walk to Water*, S.E. Hinton's *The Outsiders*, and Shakespeare's *A Midsummer Night's Dream.*

**E0800 English 8**
**Grade: 8**
**Prerequisite: English 7**

English 8 builds upon the skills of the previous year with an increased focus on literary analysis and writing mechanics. Students explore a variety of literary genres, including poetry, short stories, novels, and nonfiction. Students continue to hone their analytical writing skills through personal narratives, argumentative essays, and an MLA research assignment. Vocabulary, grammar, and spelling are studied through multiple resources. Students must complete the New York State English Language Arts Assessment for Grade 8 in the spring. Anchor texts include Lois Lowry's *The Giver*, *The House on Mango Street* by Sandra Cisneros, and Jason Reynold's *A Long Way Down.*

**E0900 English 9**
**Grade: 9**
**Unit of Credit: 1**
**Prerequisite: English 8**

Students read a wide variety of literature in fiction, drama, poetry, and nonfiction. They learn to identify an author's purpose by conducting close readings, analyzing literary devices, and approaching the author's writing as a craft. With an emphasis on annotating the text and making inferences, the course encourages independent thought about a work's various meanings and teaches students to support their claims with appropriate evidence and commentary. Grammar and vocabulary are integrated throughout the year. Anchor texts include *To Kill a Mockingbird* by Harper Lee and Shakespeare's *Romeo and Juliet*.

**E0900H English 9H**
**Grade: 9**
**Unit of Credit: 1**
**Prerequisite: 90 or above in English 8; recommendation of instructor**

This course requires rigorous academic independence as students explore the curriculum with increased depth. As a result, they are expected to do much more work outside of the classroom. Close reading and analytical writing are stressed through regular analysis of AP-level excerpts. SAT grammar practice and vocabulary building are focal points. Creative writing will take the form of poetry and skit performance. Anchor texts include Edith Hamilton's *Mythology* and J.D. Salinger's *Catcher in the Rye*.

**E1000 English 10**
**Grade: 10**
**Unit of Credit: 1**
**Prerequisite: English 9**

English 10 continues to build upon those skills developed in English 9. Literary analysis and argumentative writing focus on the skills required for the New York State Regents exam. Students will study major literary works, independent reading, poetry selections, and non-fiction articles. Secondary fundamentals of grammar, vocabulary, writing mechanics, and PSAT/SAT-related skill instruction are also a regular component of this course. Anchor texts include John Steinbeck's *Of Mice and Men* and Lorraine Hansberry's *A Raisin in the Sun.*

**E1000H English 10H**
**Grade: 10**
**Unit of Credit: 1**
**Prerequisite: 85 or above in English 9H or 92 or above in English 9; recommendation of instructor**

This advanced-level course is for motivated students able to engage in higher-level critical reading and writing. A rigorous level of academic independence is expected of each honors student in preparation for upper-level AP courses. The aim is to enhance students' critical thinking and clear communication through intensive class study of traditional and contemporary authors. Grammar, vocabulary, writing mechanics, MLA style, and PSAT/SAT-related skill instruction are regular components of this course. Anchor texts include John Steinbeck's *Of Mice and Men,* George Orwell's *Animal Farm,* and Shakespeare's *Macbeth*.

**E1100 English 11**
**Grade: 11**
**Unit of Credit: 1**
**Prerequisite: English 10**

English 11 centers on the reading, writing, and analytical skills required to prepare students for college and career goals. Students sample a wealth of genres in American literature, including nonfiction, short stories, and poetry. Grammar, vocabulary, MLA style, and writing mechanics are taught within class readings. PSAT/SAT preparation is also embedded throughout the year. Students must pass the New York State ELA Regents exam in June. Anchor texts include *The Other Wes Moore: One Name, Two Fates* by Wes Moore, *The Great Gatsby* by F. Scott Fitzgerald, and Reginald Rose's *12 Angry Men*.

**E1104 AP English Language and Composition (includes WCC English 101)**
**Grade: 11**
**Unit of Credit: 1**
**Prerequisite: 85 or above in English 10H or 92 in English 10; recommendation of instructor**

AP Language and Composition focuses on rhetorical analysis, argumentative writing, and research skills. Students are exposed to the central components of analytical and argumentative pieces, including a focused use of essential textual evidence. A strong foundation of reading and writing is important, as high levels of literary thought and independence are required for this course. Students also have the opportunity to earn three college credits from the Westchester Community College ECE program for this course (E101). All students will take the AP Language and Composition exam in May and complete the required MLA research and writing components.

**E1200 English 12**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: English 11**

This course is designed to challenge students to think critically about issues that emerge from a literary, cultural, and social context as they enter the world of college, career, and beyond. Students will strengthen analytical skills through multiple avenues of expression, including literature, nonfiction, film, drama, poetry, and media. Students will write for multiple purposes, including personal reflection, research, text analysis, presentation, and persuasion. Anchor texts include Stephen Covey's *The 7 Habits of Highly Effective Teens*, Wes Moore's *The Work,* Mitch Albom's *The Five People You Meet in Heaven,* and student-choice independent book club readings.

**E1205 English 12 College Credit (includes WCC English 101)**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: 85 or above in English 11; recommendation of instructor**

ECE 101 is a Westchester Community College Early College Experience course for seniors from our English 11 program who are ready to develop more advanced research, critical analysis, and argumentative writing skills. The overarching goal of the course is for students to become capable college-level writers of critical analysis, and argument, using MLA style. The course prepares students for the college process and explores post-graduation options. Students complete two MLA research papers, including a proposal, annotated bibliography, research article, and presentation. Texts include selections from print and online sources, including *They Say, I Say* (W.W. Norton) and *The Craft of Research* (University of Chicago Press).

**E1206 AP English Literature and Composition (includes WCC English 102)**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: Grade of 85 or higher in AP English Composition or 93 in English 11; recommendation of instructor**

Students in this course explore advanced literary terminology and methodology through texts from different periods, contexts, and cultures. Students must demonstrate in writing and discussion the ability to understand, analyze, and interpret works representing (but not limited to) the genres of drama, fiction, and poetry. Students also have the opportunity to earn three college credits through the Westchester Community College ECE program (E102). Students must complete the College Board Advanced Placement examination in May and the required MLA literary writing/research assignments throughout the year. Anchor texts include Shakespeare's *Hamlet*, Khaled Hosseini's *The Kite Runner*, Mary Shelley's *Frankenstein*, and Paulo Coelho's *The Alchemist*.

## ELECTIVE OFFERINGS

**E0975 Introduction to Drama**
**Grade: 9-10**
**Unit of Credit: ½**
**Prerequisite: None**

This course is designed to introduce students to the fundamentals of theater arts, including the essential elements of drama, including reading, interpreting, and analyzing a variety of plays across genres and periods. Students will bring scenes to life through acting exercises, explore staging techniques, and learn the basics of technical theater. Through group projects, scene work, and individual presentations, students will gain confidence and insight into the collaborative nature of theater, building a strong foundation in drama and communication skills.

**E0920 Multimedia Journalism**
**Grade: 9-11**
**Unit of Credit: ½**
**Prerequisite: None**

In this course, students will explore the foundations of journalism, multimedia reporting, and storytelling through emerging digital tools. We will study how sources of media shape our understanding of the world and cover the ethics of today's media landscape. Students will create a versatile media portfolio showcasing their skills and insights into multimedia production, preparing them for further media studies. Students will contribute to the school newspaper through topics of interest that engage the student body.

**E10606 Creative Writing**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

In this course, students will unleash their imagination and develop their voices through poetry, journaling, fiction, and nonfiction writing. Designed for all levels, this course fosters creativity and self-expression while building foundational skills. Students will engage in writing workshops, peer critiques, and readings of professional works to inspire their creations. Whether experimenting with personal essays, short stories, or lyrical verse, students will discover the power of storytelling and leave with a portfolio showcasing their growth as writers.

**E1030 Film**
**Grade: 11-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course is designed to help students learn how to think critically about the visual medium of film as well as the technical aspects of it. Students will learn about different genres through the lens of both classic and contemporary films. Students will view and discuss styles, techniques, and usage of motifs by the film directors. Students will complete a variety of activities that will include but are not exclusive to writing movie reviews, having analytical discussions, and written commentary analyzing multiple narrative elements.

**E1020 Graphic Novels**
**Grade: 11-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course explores the significant influence of comic books on American culture and literary history. Students delve deeply into the "Invisible Art" of this genre of literature by studying Scott McCloud's groundbreaking *Understanding Comics.* Students will be introduced to key Graphic Novels that shook the comic book world, including Alan Moore's *The Watchmen* and Frank Miller's *Batman: The Dark Knight Returns.* Readers will also dabble in the memoir, reading Craig Thompson's *Blankets* and Marjane Satrapi's *Persepolis.* Finally, students will explore contemporary stories like Brian K. Vaughan's ongoing *Saga* series, Mark Millar's *Old Man Logan,* and more.

## SUPPORT CLASSES

**E0720, E0820 Writing Lab (Middle School)**
**Grade: 7-8**
**Prerequisite: None**

This course is designed to provide students with targeted academic intervention support in reading and writing to enhance their performance across all subject areas. Students are recommended for this course based on their ELA test scores in grades 6-7. The Writing Lab focuses on developing essential language arts skills for academic success within the context of students' daily work. Through personalized guidance and support, students will improve their reading and writing abilities, build confidence, enhance executive functioning skills, and learn strategies to tackle academic tasks more easily.

**1120 Writing Lab (High School)**
**Grade: 7-8**
**Unit of Credit: 0**
**Prerequisite: None**

This course is designed to provide high school students with targeted academic support in reading and writing, tailored to enhance their performance across various content areas. Students can be placed in this course based on instructor recommendation, ELA 8 exam results, and Regents exam scores. In addition to the standard academic content, students will receive personalized support for college essays and supplements, SAT skills, resumes, Regents review, and more.

**Reading (Middle School and High School)**
**Grade 7 (E0711)**
**Grade 8 (E0811)**
**Grades 9-12 (E0911)**
**Unit of Credit: 0**
**Prerequisite: None**

Reading classes for grades 7-12 focus on literacy skills through the pre-reading, reading, and post-reading processes to improve and increase comprehension. Critical thinking skills utilize the science of reading instruction. During the year we work on developing vocabulary acquisition, language comprehension, synthesizing text, and word recognition and fluency while applying active strategies to develop thoughtful responses to reading. In addition, intensive classes follow specific guided programs for a Multisensory Approach to reading instruction.

# ENGLISH AS A NEW LANGUAGE

English as a New Language (ENL) is available to students in grades 7-12 whose native language is not English and who need to develop skills for greater English proficiency. Instruction focuses on developing each student's understanding, speaking, reading, and writing of the English language. ENL courses aim to foster a supportive environment that encourages risk-taking and cultural exchange, ensuring students feel empowered to use English in their academic and social lives. The courses aim to help students acquire fluency in English and ensure students are able to access and master the content in other academic areas. Students will earn one elective credit for each year of participation.

Two levels of ENL instruction are offered and four levels of English Language Arts for English Language Learners are offered. The New York State Identification Test for English Language Learners (NYSITELL) exam is administered to determine the student's level of English proficiency and the appropriate placement. Each student's progress is assessed on an ongoing basis through a yearly administration of the New York State English as A Second Language Achievement Test (NYSESLAT). Students are placed in the appropriate ENL course based on the level attained on the NYSITELL and NYSESLAT and can exit the program when they reach the Commanding level of proficiency.

## COURSE OFFERINGS

| COURSES | |
|---|---|
| **D0700** | **ENL ENTERING (MIDDLE SCHOOL)** |
| **D0890** | **ENL TRANSITIONING (MIDDLE SCHOOL)** |
| **D0901** | **ENL ENTERING (HIGH SCHOOL)** |
| **D0902** | **ENL TRANSITIONING (HIGH SCHOOL)** |
| **D1100** | **ENL ENGLISH LANGUAGE ARTS 1** |
| **D1200** | **ENL ENGLISH LANGUAGE ARTS 2** |
| **D1201** | **ENL ENGLISH LANGUAGE ARTS 3** |
| **DO1100E** | **ENL ENGLISH LANGUAGE ARTS 4** |
| **DH100** | **ENL GLOBAL HISTORY & GEOGRAPHY 9** |
| **DH102** | **ENL GLOBAL HISTORY & GEOGRAPHY 10** |
| **D01101** | **ENL 9/10 LAB** |
| **D0700L** | **ENL 11/12 LAB** |

## COURSES

**D0700 ENL Entering (Middle School)**
**Grade: 7-8**
**Prerequisite: Score of "Entering" on the NYSITELL or NYSESLAT**

This foundational course is designed for recently arrived students with little to no English language proficiency in the 7th and 8th grades. Through engaging activities and a supportive environment, students will develop basic speaking, listening, reading, and writing skills in English. Course objectives include:

- Developing foundational vocabulary and phrases for everyday communication.
- Improving listening skills through interactive exercises and multimedia resources.
- Gaining confidence in speaking through structured dialogues and role-playing.
- Introducing basic reading comprehension skills using simplified texts.
- Practicing writing simple sentences, personal narratives and paragraphs.

**D0700 ENL Transitioning (Middle School)**
**Grade: 7-8**
**Prerequisite: Score of "Emerging/Transitioning" on the NYSITELL or NYSESLAT**

This intermediate course is intended for students who have a foundational understanding of English in the 7th and 8th grades. Building on existing skills, this course emphasizes fluency and comprehension in both academic and everyday contexts, preparing students for higher-level English studies. Course objectives include:

- Expanding vocabulary with a focus on academic and content-specific terms.
- Enhancing listening skills through discussions, lectures, and multimedia presentations.
- Developing oral expression through group discussions, presentations, and debates.
- Improving reading comprehension by analyzing a variety of texts, including fiction, non-fiction, and informational materials.
- Practicing writing skills by composing essays, summaries, and reflections.

**D0901 ENL Entering (High School)**
**Grade: 9-12**
**Unit of Credit: 1**
**Prerequisite: Score of "Entering" on NYSITELL or NYSESLAT**

This foundational course is designed for recently arrived students with little to no English language proficiency in the 9th and 10th grades. Through engaging activities and a supportive environment, students will develop basic speaking, listening, reading, and writing skills in English. The course objectives include:

- Developing foundational vocabulary and phrases for everyday communication.
- Improving listening skills through interactive exercises and multimedia resources.
- Gaining confidence in speaking through structured dialogues and role-playing.
- Introducing basic reading comprehension skills using simplified texts.
- Practicing writing simple sentences, personal narratives, and paragraphs.

**D0901 ENL Transitioning (High School)**
**Grade: 9-12**
**Unit of Credit: 1**
**Prerequisite: Score of "Emerging/Transitioning" on NYSITELL or NYSESLAT**

This intermediate course is intended for students who have a foundational understanding of English in the 9th through 11th grades. Building on existing skills, this course emphasizes fluency and comprehension in both academic and everyday contexts, preparing students for higher-level English studies. The course objectives include:

- Expanding vocabulary with a focus on academic and content-specific terms.
- Enhancing listening skills through discussions, lectures, and multimedia presentations.
- Developing oral expression through group discussions, presentations, and debates.
- Improving reading comprehension by analyzing a variety of texts, including fiction, non-fiction, and informational materials.
- Practicing writing skills by composing essays, summaries, and reflections.

## ENGLISH LANGUAGE ARTS COURSES FOR ENGLISH LANGUAGE LEARNERS

English Language Arts for English Language Learners are courses for English as a New Language (ENL) students, running parallel to the English curriculum for grades 9 through 12. These courses are designed to enhance essential language skills—speaking, listening, reading, and writing—through a focused engagement with literature. This series prepares students to succeed in mainstream English courses by offering instructor-led and independent reading experiences.

### D100 ENL English Language Arts 1

**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: Score of "Entering" on the NYSITELL or NYSESLAT and faculty recommendation**

This foundational course is designed for recently arrived students with little to no English language proficiency in the 9th and 10th grades. The focus is to develop fundamental communication skills. Emphasis is placed on vocabulary expansion and effective verbal expression. Students explore a variety of texts including short stories, introductory novels, and poetry. Instruction features guided reading sessions and independent reading assignments to build reading comprehension and writing abilities. Writing workshops focus on constructing coherent paragraphs and essays.

### D1200 ENL English Language Arts 2

**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: Score of "Emerging/Transitioning" on the NYSITELL or NYSESLAT and faculty recommendation**

This course is designed for students with a foundational understanding of English in the 9th and 10th grades. The focus is to enhance discussion skills and to improve listening and speaking capabilities. Students will examine more complex texts such as adapted novels, plays, and nonfiction articles. Guided and independent reading will focus on analyzing themes, character development, and plot structures. Writing assignments will include analytical essays and research projects.

### D1201 ENL English Language Arts 3

**Grade: 10-11**
**Unit of Credit: 1**
**Prerequisite: Score of "Transitioning/Expanding" on the NYSITELL or NYSESLAT and faculty recommendation**

This course is designed for students with an intermediate to advanced understanding of English in the 10th and 11th grades. The focus is to foster greater discussion capabilities and strengthen listening and speaking skills. Students will examine more complex texts such as classic poetry, novels, nonfiction, and plays. Guided and independent reading will focus on literary elements, central ideas, and genre studies. Writing assignments will include analytical essays, argumentative responses, and research projects.

**D01100E ENL English Language Arts 4**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Score of "Emerging/Transitioning" on the NYSITELL or NYSESLAT and faculty recommendation**

This course is designed for students with an intermediate to advanced understanding of English in the 11th and 12th grades. The focus is to develop advanced communication skills, participate in in-depth discussions, and explore multiple perspectives. Students will engage with a wide range of significant literary works, including influential novels, modern literature, and critical nonfiction. Both guided and independent readings will support the writing of sophisticated argumentative and analytical essays in addition to research papers. Preparation will also include standardized tests and academic writing conventions. Students will be administered the New York State ELA Regents Exam in June.

## SOCIAL STUDIES COURSES FOR ENGLISH LANGUAGE LEARNERS

**DH100 ENL Global History & Geography 9**
**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: Score of "Entering or Emerging" on the NYSITELL or NYSESLAT and faculty recommendation**

This course is the first in a two-year sequence of Global Studies. It provides an overview of the world's geography, culture, and early/ancient history with particular emphasis on Europe, Asia, Africa, and Latin America. Social studies content and skills are taught in conjunction with English language development practices. Home language is utilized to support the Global History content as well as English language acquisition. This course is taught in collaboration with the Social Studies Department. It is taught by a dually-certified Social Studies and ENL teacher.

**DH102 ENL Global History & Geography 10**
**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: Score of "Entering, Emerging, or Transitioning" on the NYSITELL or NYSESLAT and faculty recommendation**

This course is the second in a two year sequence of Global Studies. It provides an overview of the world's geography, culture and modern history with particular emphasis on Europe, Asia, Africa and Latin America. Social studies content and skills are taught in conjunction with English language development practices. Home language is utilized to support the Global History content as well as English language acquisition. The course ends in the New York State Global History and Geography Regents Exam. This course is taught in collaboration with the Social Studies Department. It is taught by a dual certified Social Studies and ENL teacher.

## STATE TESTING INFORMATION

The New York State Identification Test for English Language Learners (NYSITELL) exam is administered to new arrivals to determine the students' level of English proficiency and the appropriate placement. Every spring, each students' progress is assessed through a yearly administration of the New York State English As A Second Language Achievement Test (NYSESLAT). Once students are placed in mainstream English classes, the ENL teacher will inform the general education teacher and parents of the academic expectations.

# SOCIAL STUDIES

The goals of the Social Studies program are:

- To prepare students for responsible citizenship.
- To enable students to understand the interdependence of all global human society.
- To enable students to evaluate the past and the present based on the best available data.
- To empower students to make rational decisions for the future as active participants in our democratic society.

All students must earn at least four credits in Social Studies and fulfill the following core requirements: complete a two-year Global History and Geography sequence (grades 9 and 10) and pass the corresponding New York State Regents exam at the end of grade 10; pass the United States History and Government course and Regents exam at the end of grade 11; and complete a full year course in Economics and Government in grade 12.

## COURSE OFFERINGS

| | COURSES |
|---|---|
| **H0700** | **CULTURAL HERITAGE 7** |
| **H0800** | **AMERICAN HISTORY 8** |
| **H0900** | **GLOBAL HISTORY & GEOGRAPHY 9** |
| **H0900H** | **GLOBAL HISTORY & GEOGRAPHY 9H** |
| **H1000** | **GLOBAL HISTORY & GEOGRAPHY 10** |
| **H1003** | **AP EUROPEAN HISTORY** |
| **H1100** | **US HISTORY & GOVERNMENT 11** |
| **H1103** | **AP US HISTORY & GOVERNMENT** |
| **H1200** | **ECONOMICS** |
| **H1210** | **GOVERNMENT** |
| **H1222** | **AP GOVERMENT** |

| | ELECTIVES |
|---|---|
| **H1160** | **INTRODUCTION TO LAW** |
| **H1161** | **LAW 2** |
| **B0920** | **FINANCIAL ECONOMICS** |

| Grade 7 | Grade 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|---|---|---|
| Cult. Heritage 7 | American Hist. 8 | Global Hist. & Geo. 9 | Global Hist. & Geo. 10 | US Hist. & Gov. | Eco. & Gov |
| | | Global Hist. & Geo. 9 H | AP European | AP US History | AP Government |

**H0700 Cultural Heritage 7**

**Grade: 7**

The Grade 7 Social Studies curriculum is the first part of a two-year course, beginning with the foundation of the English colonies and proceeding to events leading to the Civil War. Students are introduced to concepts of basic human rights and reasons for the war.

**H0800 American History 8**
**Grade: 8**

The Grade 8 course content begins with United States Reconstruction following the Civil War, proceeds to the birth of the United States as an industrial nation and concludes with the United States' rise as a global power. Students will explore changes in American life which led to the Progressive Era, followed by the legacy of World War I, the Great Depression, the rise of dictators, and World War II. The course closes with the Cold War, the Civil Rights Era, the Vietnam War, and contemporary U.S. history.

**H0900 Global History & Geography 9**
**Grade: 9**
**Unit of Credit: 1**

This class covers the development of civilizations, classical societies, and the expansion of trade networks. The course emphasizes themes such as interactions over time, shifts in political power, and the role of belief systems. Students will sharpen their analytical writing skills through the exploration of enduring issues.

**H0900H Global History & Geography 9H**
**Grade: 9**
**Unit of Credit: 1**

This class covers the development of civilizations, classical societies, and the expansion of trade networks. The course emphasizes themes such as interactions over time, shifts in political power, and the role of belief systems. The class requires and encourages advanced reading and analytical writing skills.

**H1000 Global History & Geography 10**
**Grade: 10**
**Unit of Credit: 1**
**Prerequisite: Global History & Geography 9**

This course covers the period from the 18th century Scientific Revolution to the end of the 20th century Cold War. The course aims to prepare students for the New York State Regents Exam in June.

**H1003 AP European History**
**Grade: 10**
**Unit of Credit: 1**
**Prerequisite: 85 or above in Global History and Geography 9; recommendation of instructor**

This is a college-level, chronological, country-by-country study of the major political, economic, and cultural developments in Europe since the Renaissance. It includes extensive outside reading and analytical writing. Students will use both primary and secondary sources to become familiar with multiple perspectives. This course is usually taken in 10th grade in place of Global History and Geography 10, but may be taken as an elective in 11th or 12th grade. Students are expected to take the Advanced Placement Examination in European History in May and 10th graders must take the Global History and Geography Regents in June. Successful completion of this course and a passing score on the Global Studies and History Regents Exam are required for graduation.

NOTE: This course requires a more rigorous summer reading assignment.

**H1100 United States History and Government**
**Grade: 11**
**Unit of Credit: 1**
**Prerequisite: Global History & Geography 10**

This course is a study of the development of American political, social, economic and cultural institutions. Major emphasis is placed on the origin and development of the United States government, the changing nature of American society from 1865 -1920, eras of prosperity and depression between 1917-1940, the age of global crisis, and 1950 to the present. Successful completion of this course and a passing score on the US History and Government Regents Exam are required for graduation.

**H1103 AP United States History and Government**
**Grade: 11**
**Unit of Credit: 1**
**Prerequisite: 85 or above in Global History and Geography 10; recommendation of instructor**

This is a college-level course with emphasis on the English Colonies, American Revolution and Constitution, the Jacksonian Era, Sectionalism, the Civil War and Reconstruction, the Populist and Progressive Eras, the Great Depression and New Deal, and the Cold War. Students utilize a college-level text as well as a rich array of primary sources and secondary texts. Extensive writing and periodic research on a variety of topics are part of the course and will develop will develop historical thinking skills. Successful completion of this course and a passing score on the US History and Government Regents Exam are required for graduation.

**H1200 Economics**
**Grade: 12**
**Unit of Credit: 0.5**
**Prerequisite: US History and Government 11**

Economics is a one-semester course which covers basic micro- and macro-economic definitions, laws, relationships, concepts, and models in an objective and analytical manner while subjecting these ideas, both separately and collectively, to various appropriate classic and current situations. It also philosophically treats the development of the various economic systems and includes discussions of any current philosophical positions within the classroom or public sphere.

**H1210 Government**
**Grade: 12**
**Unit of Credit: 0.5**
**Prerequisite: US History and Government 11**

Participation in Government is an introduction to the analysis of public policy. The course is designed to give students basic research, communication, and decision-making skills used in public policy analysis. Participation in Government is divided into ten units. The first six units constitute basic training in essential conceptual, information gathering, and analysis tools. The last four units require students to be conversant on a public policy issue of their choice.

**H1222 AP United States Government and Politics**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: US History and Government 11; teacher recommendation**

This is a college-level course designed to give students an analytical understanding of government and politics in the United States. Students study general concepts used to interpret U.S. politics and then analyze specific case studies including Supreme Court cases. In order to answer the crucial question, "Who Rules and To What End," students learn about the formal and informal institutions that influence policy in this country. Daily reading of newspapers and political journals is expected and students will conduct research using multiple types and sources of media. Enrollment in AP Government may be substituted for the Participation in Government and Economics requirements, but must be successfully completed, as it is required for graduation. Teacher recommendation is highly recommended. Students are expected to take the AP Exam in May. Successful completion of this course is required for graduation.

## ELECTIVES

**H1160 Introduction to Law**
**Grade: 10-12**
**Unit of Credit: 1**
**Prerequisite: None**

This course provides an overview of the U.S. legal system. The class will provide an introduction to Constitutional, Criminal, and Civil Law at the federal, state, and local levels. Students will study both broad and specific legal topics to give them a better understanding of law and how it affects them in real life. The course will use case studies, individual research, group discussion/debate, guest speakers, and mock trials throughout the course.

**H1160 Introduction to Law 2: Law in Action**
**Grade: 11-12**
**Unit of Credit: ½**
**Prerequisite: Introduction to Law**

Law in Action is an experiential course that provides students with hands-on experience through the use of simulation exercises and hypothetical cases. Students will participate in a variety of activities including Mock Trial, Moot Court, and Negotiation. They will also have the opportunity to hone their skills in legal writing by writing mock judicial opinions and briefs. The course will conclude with an overview of careers in the legal profession through a variety of professional guest speakers.

**B0920 Financial Economics**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: None**

This course surveys the basic elements of both microeconomics and macroeconomics. This course provides students with a better understanding of the roles individuals, businesses, and government play and their impact on our economy. Students learn basic economic concepts such as supply and demand, business organizations, market structures, monetary and fiscal policy, money and banking, stock markets, international trade, and personal finance. Special emphasis is placed on current economic issues nationally and internationally

# MATHEMATICS

The mathematics program at Alexander Hamilton Junior-Senior High School strives to develop students' problem-solving skills, confidence in their mathematical ability and appreciation of the relevance of mathematics to today's society. By offering a variety of courses for students with a wide range of abilities, the mathematics program ensures that students meet and exceed New York State requirements. Students are challenged and encouraged to reach their full potential with skills that will carry them through the university and/or the workplace.

All students must pass three years of mathematics courses and pass one mathematics Regents examination to fulfill the New York State graduation requirements in mathematics. The Algebra Regents Exam will be administered in June for students enrolled in Algebra. Students in Geometry or Geometry Accelerated will take the Geometry Regents Exam in June. Students in Algebra 2 and Algebra 2 Accelerated will take the Algebra II Regents Exam in June.

## COURSE OFFERINGS

**COURSES**

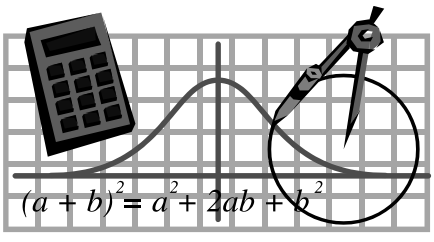
**M0700 MATH 7**
**E08120 MATH 8**
**M0802 ALGEBRA 8**
**M0900 ALGEBRA (Grade 9)**
**M09021 GENERAL APPLIED MATH**
**M10000R GEOMETRY R**
**M1001 GEOMETRY ACCELERATED**
**M1100 ALGEBRA II/TRIGONOMETRY (Year 1)**
**M1101 ALGEBRA II/TRIG ACCELERATED**
**M1122 COLLEGE ALGEBRA/TRIG**
**M1125 COLLEGE PRECALCULUS**
**M1140 ALGEBRA IIR/TRIGONOMETRY (Year 2)**
**M1202 COLLEGE STATISTICS**
**M1203 AP CALCULUS AB**

**ELECTIVES**

**M1003 INTRODUCTION TO PYTHON**
**MC1000 AP COMPUTER SCIENCE A**

| Grade 7 | Grade 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|---|---|---|
| Math 7 | Math 8 | Algebra (Gr. 9) | Geometry R | Alg. 2/Trig (Yr. 1) | Alg. 2/Trig (Yr. 2)<br>College Stats<br>College Alg/Trig<br>College Precalc<br>AP Calc AB |
| | Algebra 8 | Geometry Accelerated | Alg. 2/Trig Accelerated | College Alg/Trig<br>College Precalc | |
| | | | Alg. 2/Trig (Yr. 1) | Alg. 2/Trig (Yr. 2) | |

**M0700 Math 7**
**Grade: 7**




The mathematics course for 7th grade covers foundational algebra concepts like operations with rational numbers (fractions, decimals, integers), ratios and proportions, solving basic equations and inequalities, basic geometry including angles and measurements, data analysis, probability, and graphing on a coordinate plane. These concepts will be learned and applied to real-world problems, essentially preparing students for more advanced algebra in later grades.

**M08120 Math 8**
**Grade: 8**

The mathematics course for 8th grade focuses on foundational algebra concepts, including solving linear equations, working with expressions and functions, understanding proportional relationships, exploring geometry basics, and further developing skills with fractions, decimals, and percentages, all while preparing students for more advanced algebra in high school.

**M0802 Algebra 8**
**Grade: 8**
**Unit of Credit: 1**
**Prerequisite: 85 or above in Math 7**

This course follows the NYS Algebra curriculum as well as the Math 8 curriculum. Topics covered in this course include Number Theory, Polynomials, Functions, Transformations, Word Problems, Statistics, Series and Sequences, and Rational Expressions. Students will take the Algebra 1 Regents Exam in June.

**M0900 Algebra (Grade 9)**
**Grade: 9**
**Unit of Credit: 1**
**Prerequisite: None**

This course follows the NYS Algebra curriculum. Topics covered in this course include Number Theory, Polynomials, Functions, Transformations, Word Problems, Statistics, Series and Sequences, and Rational Expressions. Students must take and pass the Algebra Regents in June.

**M10000R Geometry R**
**Grade: 10**
**Unit of Credit: 1**
**Prerequisite: Algebra**

Following the NYS Geometry curriculum, topics covered include Logic, Constructions, Coordinate Geometry, Transformational Geometry, Angles, Polygons, Triangles, Quadrilaterals, Geometry of the Circle, and Solids. Students will take the NYS Geometry Regents in June.

**M1001 Geometry Accelerated**
**Grade: 9**
**Unit of Credit: 1**
**Prerequisite: 85 or above in Algebra Accelerated**

Following the NYS Geometry curriculum, topics covered include Logic, Constructions, Coordinate Geometry, Transformational Geometry, Angles, Polygons, Triangles, Quadrilaterals, Geometry of the Circle, and Solids. Students will take the NYS Geometry Regents in June.

**M1100 Algebra II/Trigonometry (Year 1)**
**Grade: 11**
**Unit of Credit: 1**
**Prerequisite: Geometry**

This course includes the study of rational expressions, characteristics of functions, arithmetic and geometric series and sequences, absolute values equations and inequalities, higher order radical expressions, complex numbers, and analysis of quadratic functions.

**M1140 Algebra II/Trigonometry (Year 2)**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Algebra II/Trigonometry (Year 1)**

This course is a continuation of Algebra 2/Trigonometry (Year 1). It includes the study of linear, quadratic, polynomial, radical, exponential, logarithmic, and rational functions. Trigonometry topics include graphing trig curves, solving trig equations, proving trig identities, and solving non-right triangles. Students take the NYS Algebra 2 Regents in June.

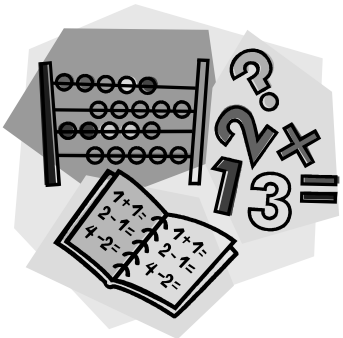
**M1101 Algebra II/Trigonometry Accelerated**
**Grade: 10**
**Unit of Credit: 1**
**Prerequisite: 85 or above in Algebra Accelerated or Geometry Accelerated**

This course includes the study of linear, quadratic, polynomial, radical, exponential, logarithmic, and rational functions. Trigonometry topics include graphing trig curves, solving trig equations, proving trig identities, and solving non-right triangles. Arithmetic and geometric sequences and series are covered. Probability and statistics topics include standard deviation, binomial, and normal distributions. Students need a strong foundation in Algebra as this course expects students to recognize patterns, create formulas, and think abstractly. Students take the NYS Algebra 2 Regents in June.

**M1122 College Algebra/Trigonometry**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Algebra II/Trigonometry**

College Algebra consists of topics that would normally be found in a freshman college algebra math course. Topics include quadratic functions and their graphical representations, polynomial functions, rational functions, exponential and logarithmic functions, trigonometry, and systems of equations and inequalities. Students can earn 4 college credits through Westchester Community College.

**M1125 College Precalculus**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Algebra II/Trigonometry**



Pre-Calculus includes topics such as parent functions and transformations, analysis of higher order polynomial and rational functions, logarithmic functions, trigonometry, conic sections, polar coordinates and basic limits. Students can earn 4 college credits through Westchester Community College.

**M1202 College Statistics**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Algebra II/Trigonometry**

Statistics consists of topics that would normally be found in a freshman college statistics math course. Topics include elements of statistics, measure of central tendency, measures of dispersion, correlation, probability, normal distribution and the normal curve, testing hypotheses, and the chi-square test. Students can earn 4 college credits through Westchester Community College.

**M1203 AP Calculus AB**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: 80 or above in Algebra Accelerated or Geometry Accelerated**

AP courses in Calculus consist of a full high school academic year of work and are comparable to calculus courses in colleges and universities. Success in AP Calculus is closely tied to the preparation students have had in courses leading up to their AP courses. Students should have demonstrated mastery of material from courses covering the equivalent of four full years of high school mathematics before attempting calculus. Topics focus on applications of the derivative and integral, limits, techniques of differentiation, curve sketching, related rates, techniques of integration, area between two curves, and the volume of solids of revolution. Students need a strong foundation in algebra as this course expects students to recognize patterns, create formulas, and think abstractly. Students spend the year preparing for an AP exam in May. Students may also earn 8 credits from Westchester Community College for Math 181 and Math 191.

## ELECTIVES

**M09021 General Applied Math**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: Algebra**

A math course that focuses on applying basic mathematical concepts like algebra, geometry, and statistics to solve real-world problems across different fields, such as business, science, and personal finance, emphasizing practical applications rather than theoretical proofs. Often included are topics like budgeting, data analysis, measurement conversions, and ratio calculations. This is a project based course in which students will be expected to engage in both individual and group projects and assignments to demonstrate their learning.

## M1003 Introduction to Python

**Grade: 10-12**
**Unit of Credit: 1**
**Prerequisite: 80 or above in Algebra or Algebra Accelerated**

Python Fundamentals is an introductory-level course for students brand new to programming and computer science. In this course, students will learn problem-solving strategies, software design, and the foundations of computer science using two key tools: the Project STEM programming environment and EarSketch, a software package that turns your code into music. Not only will this course prepare students for continuing their studies in computer science (for example, by taking AP Computer Science A and AP Computer Science Principles), but it will also teach them how to think like a scientist and solve real-world problems – skills that are important to every 21st-century citizen. Students need a strong foundation in Algebra as this course expects students to recognize patterns, create formulas, and think abstractly. Students may also earn college credits from Westchester Community College for successfully completing this course.

## M1203 AP Computer Science A

**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: 80 or above in Algebra or Algebra Accelerated**

In AP Computer Science A, students will explore the fundamental concepts of computer science through the lens of programming using the Java language. They will learn to develop algorithms, utilize data structures, and implement problem-solving techniques while focusing on software design and development principles. The curriculum emphasizes object-oriented programming, teaching students how to model real-world problems by creating and manipulating objects. Additionally, students will gain an understanding of abstract data types, control structures, and the importance of code efficiency and readability. Through hands-on projects, they will also enhance their computational thinking skills, preparing them for further studies in computer science and related fields. Students need a strong foundation in Integrated Algebra as this course expects students to recognize patterns, create formulas, and think abstractly. Students spend the year preparing for an AP exam in May. Students may also earn 4 credits from Westchester Community College for COMSC 10 by passing the course with an overall grade above 70.

# SCIENCE

The Science curriculum consists of courses that use science as a method of inquiry and learning. Emphasis is placed on the processes of science that allow students to discover and interpret scientific knowledge, develop positive attitudes toward science, encourage an interest in science as a vocation, and utilize problem solving/decision making techniques that relate to a technology-oriented society.

## COURSE OFFERINGS

**COURSES**

**S0700 SCIENCE 7**
**S0800 SCIENCE 8**
**S0902 BIOLOGY**
**S1110NR CONSUMER CHEMISTRY**
**S1100 CHEMISTRY R**
**S1009 PERFORMANCE PHYSICS**
**S1120 PHYSICS R**

**SCIENCE ELECTIVES**

**S08050 SCIENCE INQUIRY 8**
**ST008 INTRO. TO ENGINEERING DESIGN 8**
**S1121 NATURAL DISASTERS**
**S0100B ASTRONOMY**
**S1122 SCIENCE OF NUTRITION**
**S1140 INTRO. TO FORENSIC SCIENCE**
**S1100 ANATOMY AND PHYSIOLOGY**
**S1190 SUPA COLLEGE FORENSICS**
**S1160 AP PSYCHOLOGY**
**S1203 AP BIOLOGY**

**TECHNOLOGY AND ENGINEERING**

**ST009 PRINCIPLES OF ENGINEERING**
**ST010 CIVIL ENGINEERING AND ARCHITECTURE**
**ST011 COMPUTER INTEGRATED MANUFACTURING**
**ST012 UX DESIGN/APP CREATORS**

| Grade 7 | Grade 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|---|---|---|
| Science 7 | Science 8 | Biology | Chemistry | Physics | AP Biology<br>AP Psychology<br>SUPA Forensics |
| | | | Consumer Chem | Performance Physics | Anat. and Phys.<br>Nutrition<br>Natural Disasters |

**S0700 Science 7**
**Grade: 7**
**Unit of Credit: 1**

This is the second course in the NY State Middle School curriculum. Using a variety of real-world situations, students work with their peers to design experiments and pose solutions. Each stage of the investigation allows them a deeper understanding of the underlying concepts. This course builds on the work completed in Grade 6 and establishes the routines needed for success in Grade 8 and beyond.

**S0800 Science 8**
**Grade: 8**
**Unit of Credit: 1**
**Prerequisite: Science 7**

This course fulfills the NY State Science Learning Standards for Middle School. Students will explore a wide variety of topics, including the underlying concepts in Physics, Biology and Chemistry. Using the phenomenon approach, students are given real-world situations related to their learning. Students will collaborate to design experiments that allow them to further their understanding of the concept. This class will culminate in the New York State Grade 8 Science Assessment.

**S0902 Biology**
**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: None**

This course will explore the various aspects of Life Science, including topics such as structure and function of cells, natural selection, and evolution. The course provides students with an inquiry based-approach to learning. Students will use a variety of materials, investigations, simulations, and current research to uncover the concepts that connect all life on Earth. This course will culminate in the New York State Regents Exam in Biology in June and has a mandatory 1200-minute laboratory requirement.

**S11100NR Consumer Chemistry**
**Grade: 10-11**
**Unit of Credit: 1**
**Prerequisite: Biology**

This course is a chemistry course with an emphasis on consumers, the home, and useful forms of chemistry. The goal is to learn the basics of chemistry and to apply them to everyday situations. This course uses simple laboratory investigations to explore the curriculum. Focus is on providing students with an approachable entry into the science of Chemistry.

**S1100 Chemistry R**
**Grade: 10-11**
**Unit of Credit: 1**
**Prerequisite: Biology and Algebra**

This course provides an overview of inorganic chemistry for college bound students. Students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Laboratory techniques are used to obtain, organize, and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include measurement, atomic structure, electron configuration, the periodic table, bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry. This course will culminate in the New York State Regents Exam in Chemistry in June and has a mandatory 1200-minute laboratory requirement.

**S1120 Physics R**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Biology and Algebra**

This course includes the study of matter and energy and their interactions. Relying heavily on mathematical concepts, students will unravel the laws of the physical world. Topics include velocity and acceleration, Newton's Laws of Motion, forces, conservation of energy and momentum, heat, electrostatics, electricity, magnetism, waves, sound, light, and modern physics. Laboratory investigations emphasize development of process skills and safe manipulation of lab instrumentation. This course will culminate in the New York State Regents Exam in Physics in June and has a mandatory 1200-minute laboratory requirement.

## SCIENCE ELECTIVES

**S08050 Science Inquiry 8**
**Grade: 8**
**Unit of Credit: ½**

In this course students will make observations, ask questions, and answer those questions through the scientific method using both research and experimentation.

**ST008 Introduction to Engineering Design**
**Grade: 8**
**Unit of Credit: ½**
**Prerequisite: None**

Introduction to Engineering Design (IED) introduces students to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. Through both individual and collaborative team activities, projects, and problems, students apply systems thinking and consider various aspects of engineering design, including material selection, human-centered design, and sustainability. Students develop skills in technical representation and documentation, especially through 3D computer modeling using a Computer Aided Design (CAD) application. Students build competency in professional engineering practices, including project management, peer review, and environmental impact analysis as part of a collaborative design team.

**S1121 Natural Disasters**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

The Earth is a dangerous place. Earthquakes, hurricanes, tornadoes, floods and climate change are just a few of the ways that the natural world can put lives and property in danger. This course studies both the underlying science behind these events and the steps that individuals and communities can take to avoid these disasters. A combination of teacher- and student-led activities will give students a practical and academic appreciation of the Earth's most powerful forces.

**S0100B Astronomy**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course will give students the opportunity to explore the larger world. Solar system, solar dynamics, lunar motions and deep space astronomy can all be destinations for learning. The class will be comprised of balanced lecture, student laboratory exercises and investigations, and group projects.

**S1122 Science of Nutrition**
**Grade: 10-12**
**Unit of Credit: 1**
**Prerequisite: None**

Nutrition could be the single most important subject in high school. The goal of this course is to create informed individuals who have the knowledge and tools to make sure that they are leading a healthy life. Understanding types of nutrients and how the body uses them are critical to understanding how to make healthy eating choices that are tailored to each individual.

**S1140 Introduction to Forensic Science**
**Grade: 10-12**
**Unit of Credit: 1**
**Prerequisite: None**

This class encourages the application of the scientific knowledge attained in one's academic career into the realm of applied science. Students will learn what real forensic scientists do and perform similar methodologies, making what students do and learn in class an authentic experience. Because of this, students will be more likely to appreciate the sciences, perhaps encouraging them to choose a career in one of the related science fields. Topics integrate many fundamental concepts learned from physical, chemical, and biological sciences, which include the scientific method, deductive reasoning, biochemical testing, blood testing/typing, crime scene processing and safety, ballistics, fingerprinting, DNA analysis, counterfeiting, handwriting analysis, hair and fiber analysis, understanding basic components of the law and forensic anthropology.

**1009 Performance Physics**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: None**

This course explores the concepts of physics in performances such as stage plays, musicals, concerts, and events. We will be combining artistic and scientific practices to study light, sound, and mechanical motion.

**S1100 Anatomy and Physiology**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Biology**

Human Anatomy and Physiology is a course designed for students interested in learning more about how the body works. This course is an introduction to the terminology, anatomy, and physiology of the human body as it applies to everyday life. This is a rigorous course designed for students who are looking toward careers in Health Care, Science Research, or Education.

**S1190 SUPA College Forensics**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Biology**

In this course, scientific methods specifically relevant to crime detection and analysis will be presented. Emphasis is placed upon understanding the science underlying the techniques used in evaluating physical evidence. Topics included are blood analysis, organic and inorganic evidence analysis, fingerprints, hair analysis, DNA, drug chemistry, forensic medicine, forensic anthropology, toxicology, fiber comparisons, soil comparisons, and fire and engineering investigations, among others. Students can receive up to 4 college credits from Syracuse University.

**S1160 AP Psychology**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Biology**

The Advanced Placement Psychology course will offer students the opportunity to learn about the explorations and discoveries made by psychologists over the past century. Students will get the chance to assess some of the differing approaches adopted by psychologists, including biological, behavioral, cognitive, humanistic, psychodynamic, and sociocultural perspectives. Students will also learn the basic skills of psychology research and develop critical thinking skills. This course will culminate in students taking the AP Psychology Exam.

**S1203 AP Biology**
**Grade: 12**
**Unit of Credit: 1**
**Prerequisite: Average of 90% or higher in Biology and Chemistry; recommendation of instructor**

This college-level class provides the student with a comprehensive knowledge of the function and structure of plants and animals. Units of study include the chemical and cellular basis of life, the biology of organisms, perpetuation of life, the biology of populations and communities, and the genesis and diversity of organisms. Laboratory and field work are part of the course. Completion of the Advanced Placement examination in May is required of this course.

## TECHNOLOGY AND ENGINEERING ELECTIVES

**ST009 Principles of Engineering**
**Grade: 9-10**
**Unit of Credit: ½**
**Prerequisite: None**

Principles of Engineering is designed to allow students to explore a broad range of engineering disciplines and careers while designing and solving real-world engineering problems. This course introduces students to engineering concepts that apply to a variety of engineering disciplines and empowers them to develop technical skills through the use of engineering tools such as hands-on prototyping equipment, programming software, and robotics hardware to bring their solutions to life. Students apply the engineering design process to solve real-world problems across a multitude of engineering fields, such as mechanical, robotics, infrastructure, environmental sustainability, and product design and development.

**ST010 Civil Engineering and Architecture**
**Grade: 9-11**
**Unit of Credit: ½**
**Prerequisite: Principles of Engineering**

Civil Engineering and Architecture (CEA) is a high school-level course where students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. Through both individual and collaborative team activities, projects, and problems, students will solve problems as they practice common design and development protocols such as project management and peer review. Students will develop skills in engineering calculations, technical representation, and documentation of design solutions according to accepted technical standards, and use of current 3D architectural design and modeling software to represent and communicate solutions.

**XST011 Computer Integrated Manufacturing**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Principles of Engineering**

Computer Integrated Manufacturing (CIM) is one of the specialization courses that deepens the skills and knowledge of an engineering student within the context of efficiently creating the products all around us. Students learn and apply concepts related to integrating robotic systems such as Automated Guided Vehicles (AGV) and robotic arms, into manufacturing systems. Students will have the opportunity to create programs for a robot to move material, similar to pick-and-place operations typically used in an automated manufacturing setting. Throughout the course, students learn about extensive manufacturing processes and systems that go into developing a product. This offers an opportunity for students to recognize many of the exciting career opportunities the manufacturing industry has to offer.

**ST012 UX Design/App Creators**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Principles of Engineering**

UX Design (UXD) and App Creators introduces students to the field of computer science and the concepts of computational thinking through the creation of mobile apps. Students are challenged to be creative and innovative as they collaboratively design and develop mobile solutions to engaging, authentic problems. This introductory course introduces high school students to the principles of user experience (UX) design and mobile app development. Students will learn to design intuitive, user-friendly interfaces and apply their skills to create functional apps using MIT App Inventor, a beginner-friendly platform. Through hands-on projects, students will explore the design process, from wireframing and prototyping to testing and iteration, while building their own mobile apps.

# WORLD LANGUAGES

The ability to communicate in a second language provides a unique opportunity to gain access to other people and their cultures. The department is dedicated to the development of proficiencies in the communication skills enabling students to speak, understand, read, and write in at least one language other than English, and to comprehend written, spoken, and visual presentations in various media. Students will also acquire knowledge, understanding, and appreciation of the artistic, cultural, and intellectual accomplishments of other peoples to foster cross-cultural understanding.

## COURSE OFFERINGS

### COURSES

| | |
|---|---|
| **L0720** | **SPANISH 7** |
| **L0721** | **SPANISH FOR NATIVE SPEAKERS 7** |
| **L0810** | **SPANISH 1 (GRADE 8)** |
| **L0811** | **SPANISH FOR NATIVE SPEAKERS 8** |
| **L0910** | **SPANISH 1** |
| **L1010** | **SPANISH 2** |
| **L1100** | **SPANISH 3** |
| **L1122** | **COLLEGE SPANISH** |
| **L1210** | **SPANISH FOR NATIVE SPEAKERS 1** |
| **L1211** | **SPANISH FOR NATIVE SPEAKERS 2** |
| **L1211** | **SPANISH FOR NATIVE SPEAKERS 3** |
| **L0722** | **AMERICAN SIGN LANGUAGE 7** |
| **L0822** | **AMERICAN SIGN LANGUAGE 8** |
| **L1222** | **AMERICAN SIGN LANGUAGE 1 (High School)** |

| Grade 7 | Grade 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|---|---|---|---|---|---|
| Spanish 7 | Spanish 1 | Spanish 2 | Spanish 3 | College Spanish | |
| Spanish for Native Speakers 7 | Spanish for Native Speakers 8 | Spanish for Native Speakers 1 | Spanish for Native Speakers 2 | Spanish for Native Speakers 3 | |
| | | American Sign Language 1 | | | |

**L0720 Spanish 7**
**Grade: 7**
**Unit of Credit: 1**
**Prerequisite:**

Spanish 7 is an introductory course designed to build foundational skills in the Spanish language. This course covers basic vocabulary, grammar fundamentals, sentence structure, pronunciation, cultural insights, listening and speaking, and reading and writing. Overall, Spanish 7 aims to develop basic conversational skills and a solid understanding of essential grammar and vocabulary.

**L0721 Spanish For Native Speakers 7**
**Grade: 7**
**Unit of Credit: 1**
**Prerequisite:**

This course is designed for heritage speakers of Spanish who wish to strengthen their reading, writing, speaking, and listening skills. The focus will be on enhancing fluency, expanding vocabulary, understanding grammar in context, and exploring the diverse cultures of the Spanish-speaking world. The objectives of the course are to improve reading comprehension and writing skills in Spanish, expand students' academic and conversational vocabulary, gain a deeper understanding of Spanish grammar and its practical use, develop an appreciation for the diversity of Spanish-speaking cultures, and build confidence in their ability to use Spanish in academic and social contexts.

**L0810 Spanish 1 (Grade 8)**
**Grade: 8**
**Unit of Credit: 1**
**Prerequisite:**

Spanish 1 builds on the foundational skills developed in Spanish 7, further enhancing the ability to communicate in Spanish through interactive and engaging activities. This course emphasizes vocabulary expansion, grammar development, and cultural awareness, all tailored to a middle school audience. This course covers vocabulary development, grammar, communication skills, and cultural awareness. By the end of the course, students will be able to communicate effectively in everyday situations, understand basic written texts, and express themselves using a wider range of vocabulary and grammar. At the end of this course students will take the Checkpoint A exam, earning 1 high school credit by passing the class and Checkpoint A exam.

**L0811 Spanish For Native Speakers 8**
**Grade: 8**
**Unit of Credit: 1**
**Prerequisite:**

This course is designed for native Spanish-speaking students to enhance their reading, writing, speaking, and listening skills. The curriculum emphasizes advanced language use, grammar refinement, vocabulary expansion, cultural appreciation, and critical thinking. Students will explore a variety of authentic texts, engage in meaningful discussions, and complete projects to deepen their understanding of Spanish-speaking cultures. Students will improve their ability to read and analyze complex texts in Spanish, develop strong writing skills, strengthen oral communication and presentation skills, expand their vocabulary, refine grammar usage, and explore the history, traditions, and contributions of Spanish-speaking cultures.

**L0810 Spanish 1**
**Grade: 9**
**Unit of Credit: 1**
**Prerequisite: None**

Spanish 1 introduces students to the basics of the Spanish language and culture. Emphasis is placed on developing foundational skills in speaking, listening, reading, and writing, and providing students with the tools necessary to communicate in everyday situations. Key topics include basic vocabulary, grammar, communication skills, and cultural awareness. By the end of the course, students will be able to engage in basic conversations, understand simple written texts, and express themselves using foundational grammar and vocabulary. This course sets the stage for further study in Spanish and fosters an appreciation for the diversity of the Spanish-speaking world.

**L1010 Spanish 2**
**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: Spanish 1**

Spanish 2 builds on the foundational skills acquired in Spanish 1, focusing on enhancing vocabulary, grammar, and conversational abilities. Students will engage in more complex structures and themes, promoting both written and oral proficiency in the Spanish language. Key topics include vocabulary expansion, grammar development, communication skills, and cultural awareness. By the end of the course, students will be able to communicate effectively in everyday situations, understand and use past and future tenses, and appreciate cultural nuances within the Spanish-speaking world. Students will also be prepared for Spanish 3, with a solid foundation in both language skills and cultural knowledge.

**L1100 Spanish 3**
**Grade: 10-11**
**Unit of Credit: 1**
**Prerequisite: Spanish 2**

Spanish 3 continues to build on the skills developed in Spanish 1 and 2, focusing on more advanced grammatical structures, vocabulary, and cultural themes. Students will enhance their speaking, listening, reading, and writing abilities. By the end of the course, students will be able to express complex ideas, understand various texts, and engage confidently in conversations on a wide range of topics. Students will take the Checkpoint B exam for Regents credit in June.

**L1122 College Spanish**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Spanish 3**

College Spanish builds on the foundational skills acquired in Spanish 3. This course aims to build on and improve conversational skills and fluency, gain a deeper understanding of Spanish grammar and syntax, expand vocabulary for everyday and specialized topics, develop reading and writing skills in various contexts, and cultivate cultural awareness and appreciation for Spanish-speaking societies. This course is ideal for students looking to strengthen their language skills and prepare for more advanced study or practical use of Spanish in various contexts. Three (3) college credits are available through Westchester Community College.

**L1210 Spanish for Native Speakers 1**
**Grade: 9-10**
**Unit of Credit: 1**
**Prerequisite: None**

The Native/Advanced Spanish 1 course is designed for students with a strong foundation in Spanish, whether from heritage speaker backgrounds or advanced prior study. This course focuses on enhancing linguistic skills through a rigorous curriculum that balances oral communication, reading, writing, and cultural exploration. Students will refine their understanding of advanced grammar, develop academic-level writing, and gain deeper insights into the cultures of the Spanish-speaking world. The course aims to foster bilingual and biliterate proficiency for professional, academic, and personal purposes. The objectives of the class are to enhance students' oral and written communication skills in Spanish; develop advanced reading comprehension skills using authentic texts; explore and analyze diverse aspects of Hispanic cultures; improve their academic writing skills through essays, reports, and creative projects; and demonstrate advanced proficiency in grammar and vocabulary.

**L1210 Spanish for Native Speakers 2**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Spanish for Native Speakers 1**

The Spanish for Native Speakers 2 course is designed for students who want to enhance their Spanish language skills and become more acquainted with Hispanic culture. Its focus will be on the development of communicative competence, the promotion of analysis and interpretation of texts, and the exploration of Hispanic cultures. Topics covered include cultural events and celebrations, grammar (review of present tense verbs, introduction to past tenses (preterit and imperfect), future tense and conditional statements, object pronouns and reflexive verbs), communication skills (developing conversational skills through dialogues and role-plays; writing simple paragraphs and short essays; and listening comprehension through songs, videos, and authentic materials), and cultural awareness (exploration of Spanish-speaking countries and their cultures, celebrations, traditions, and societal norms). Students will be able to apply their learning to real-life scenarios such as shopping, traveling, and dining.

**L1211 Spanish for Native Speakers 3**
**Grade: 11-12**
**Unit of Credit: 1**
**Prerequisite: Spanish for Native Speakers 2**

The HS Native/Advanced Spanish III course is designed for students who want to develop advanced Spanish language proficiency and a deep understanding of Hispanic culture. Its objective is to promote communicative competence in Spanish through practice in the four skills: speaking, listening, reading and writing. This will be achieved through exploring the literature, art, history and culture of Spanish-speaking countries. Course topics covered include identity and culture (family and relationships, traditions and relationships, and cultural diversity in the Hispanic world), science and technology (technical innovations, the impact of technology in society, and ethics in science and technology), contemporary life (education and work, lifestyles in different countries, and health and well-being), beauty and aesthetics (Hispanic literature and poetry, art and music in the Hispanic world, and architecture and design), and global challenges (environmental problems, the economy and globalization, and human rights).

**L0722 American Sign Language 7**
**Grade: 7**
**Unit of Credit: 1**
**Prerequisite: None**

This introductory American Sign Language (ASL) course is designed for students with no prior knowledge of the language. Students will develop a foundational understanding of basic ASL vocabulary, grammar, and syntax, including fingerspelling, numbers, and common everyday expressions. Emphasis will be placed on visual-gestural communication, non-manual markers (facial expressions and body language), and cultural awareness of the Deaf community. Through interactive activities, dialogues, and exposure to Deaf culture, students will begin to develop receptive and expressive signing skills, fostering an appreciation for ASL as a rich and vibrant language.

**L0822 American Sign Language 8**
**Grade: 8**
**Unit of Credit: 1**
**Prerequisite: None**

This introductory American Sign Language (ASL) course is designed for students with no prior knowledge of the language. Students will develop a foundational understanding of basic ASL vocabulary, grammar, and syntax, including fingerspelling, numbers, and common everyday expressions. Emphasis will be placed on visual-gestural communication, non-manual markers (facial expressions and body language), and cultural awareness of the Deaf community. Through interactive activities, dialogues, and exposure to Deaf culture, students will begin to develop receptive and expressive signing skills, fostering an appreciation for ASL as a rich and vibrant language.

**L1222 American Sign Language 1**
**Grade: 9-11**
**Unit of Credit: 1**
**Prerequisite: None**

This introductory American Sign Language (ASL) course is designed for high school students with no prior knowledge of the language. Students will develop a foundational understanding of basic ASL vocabulary, grammar, and syntax, including fingerspelling, numbers, and common everyday expressions. Emphasis will be placed on visual-gestural communication, non-manual markers (facial expressions and body language), and cultural awareness of the Deaf community. Through interactive activities, dialogues, and exposure to Deaf culture, students will begin to develop receptive and expressive signing skills, fostering an appreciation for ASL as a rich and vibrant language.

# ART

The Alexander Hamilton Junior-Senior High School Art Department offers an extensive program for students of varied interests and abilities. We encourage each student to realize his/her potential through self-expression in the Arts. Additionally, all of our courses are framed within a context of art appreciation, with historical and cultural references. After a foundation level Studio in Art course, which satisfies the one credit graduation requirement, students may choose to pursue a sequential program leading to the Advanced Regents Diploma, or enroll in single courses as electives.

## COURSE OFFERINGS

| | | | |
|---|---|---|---|
| **A0700** | **ART 7** | **A1015** | **GRAPHIC DESIGN** |
| **A0800** | **ART 8** | **A1016** | **DIGITAL PHOTOGRAPHY 1** |
| **A0952** | **STUDIO ART (YEAR)** | **A1017** | **CERAMICS** |
| **A1000** | **DRAWING & PAINTING** | **A1018** | **ILLUSTRATION** |
| **A1012** | **PRINTMAKING** | **E0975** | **DRAMA** |
| **A1014** | **ABSTRACT AND NON-REPRESENTATIONAL ART** | | |

| Grade 7 | Grade 8 | Grade 9 | Grade 10 | Grade 11 | Electives |
|---|---|---|---|---|---|
| Art 7 | Art 8 | Studio Art | Drawing & Painting | Printmaking<br><br>Abstract/Non-represent. Art | Graphic Design<br>Photography<br>Ceramics<br>Illustration |

**A0700 Art 7**
**Grade: 7**
**Prerequisite: None**

7th Grade Art is an exploratory class designed to help improve students' basic art skills, including drawing, painting and sculpting, and designing artwork using a variety of media and techniques. This course also develops students' creativity and self-expression and will direct them to recognize and use the art elements (line, shape, color, value, form, texture and space) and design principles (rhythm, balance, proportion, variety, emphasis, harmony and unity).

**A0800 Art 8**
**Grade: 8**
**Prerequisite: Art 7**

8th Grade Art is an extension of 7th Grade Art. Students will refine their technical skills while also building their confidence as artists. This course will challenge them to move beyond their comfort zones and truly challenge themselves to find their style by defining their visual voice. In 8th grade we anchor projects in the "Studio Habits of Mind" (Develop Craft, Engage & Persist, Envision, Express, Observe, Reflect, Stretch & Explore, and Understand Art Worlds). Through the Studio Habits of Mind, students will practice techniques such as drawing, painting and sculpting in a variety of media, while also exploring the world around them through an artists' lens

**A0952 Studio Art**
**Grade: 9**
**Unit of Credit: 1**
**Prerequisite: None**

Studio Art is a prerequisite to all other high school art courses. In this course, students will be exposed to 2- and 3-dimensional art, including painting, drawing, printmaking, sculpture, computer art, design and art history. The exposure to these areas in the excitement of a studio atmosphere will encourage the development of concepts and skills in the visual arts and appreciation of world arts and cultures. This course meets the graduation requirement for Art credit.

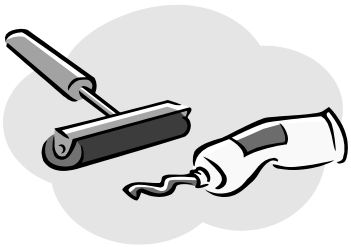
**A1000 Drawing and Painting**
**Grade: 10-12**
**Unit of Credit: 1**
**Prerequisite: Studio Art**

Drawing- This intensive drawing course trains the students' eye to see. Through deliberate and methodical processes, such as observational drawing and still life composition, the student acquires the ability to perceive three-dimensional form accurately and render it convincingly in two dimensions. This course helps students to understand the world around them by learning to grasp visual relationships and interpret what they see. Drawing is an essential primary building block that will help students in any further artwork and in many other fields as well.

Painting- Using mediums such as watercolor, gouache, and acrylic paints, students will begin by completing a structured series of assignments that teach the fundamentals of color theory. Each student will identify the hue, intensity, and luminosity of an observed color and replicate these qualities by mixing and layering paint. Assignments become increasingly complex as the student masters each assignment and learns to paint detailed still-lifes and portraits. Understanding the subtleties of paint application is an important aspect of the course. After completing this course, the student will be able to mix colors and paint artworks that create the illusion of form, space and light.

**A1012 Printmaking**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Drawing and Painting**

Printmaking is a higher-level art class dedicated to learning printmaking techniques and history. Students will use the knowledge of positive and negative space, texture, line, and shape learned in Drawing to create multiple editions of their printwork, including monoprints & monotypes, collographs, linoleum cuts, stenciling and screenprints.



**A1014 Abstract and Non-Representational Art**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Drawing and Painting**

This course introduces students to abstract painting and expands their ability to enjoy and respond to abstract art. Students improve their color skills and learn techniques for composition and improvisation. The course also focuses on creating dynamic color interaction and compelling pictorial space. Each project addresses these themes in different ways using an open strategy for starting the painting and a process of working through formal challenges. Students can choose to work with oil, watercolor, acrylic paint on paper, canvases, and panels. Instruction includes brief demonstrations, studio projects, one on one discussion and group critiques.

**A1015 Graphic Design**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Studio Art**

In this class students will use design as a creative process in communication. Students will explore various methods used to create and combine words, symbols and images to create a visual representation of ideas and messages. Students will use the basic elements and principles of art and also learn how to use the computer programs Illustrator as a design tool and Photoshop as a photo editing tool. Techniques will also include freehand drawing, painting, and computer enhancement for commercial advertising. This class teaches the basics of Graphic Design through an illustrative and corporate view.

**A1016 Digital Photography 1**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Studio Art**

In Photography, students will learn how to communicate visual ideas using basic photographic techniques incorporating historical and contemporary traditions. Traditional photographic traditions (Film Photography) may be extended with digital cameras and multimedia technologies, including the addition of text, and scanned images. Students learn about photography as a vocation, and its relationship to other careers.

**A1017 Ceramics 1**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Studio Art**

This class introduces students to the ancient craft of working with clay. Students will experience hand-building techniques including pinch, coil, and slab. Wheel throwing is introduced with expectations for basic levels of achievement, including cylinder, bowl, and plate forms. As the semester progresses, experimentation with basic techniques will lead to more freedom and individual creativity. Informal group critiques and instructor demonstrations will reinforce student learning. Clay works created in this class, whether functional or sculptural, will be enjoyed for a lifetime!

**A1018 Illustration**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: Studio Art**

In this class students will learn to develop their storytelling skills, which are vital to all aspects of Illustration. Students will study examples detailing the sophistication and purpose of a visual narrative, from traditional illustration to present day interpretations. Students will learn classic compositional formulation in order to create pieces with meaning and context, enabling them to work successfully in the future when developing ideas. Throughout the class, students will study narrative principles of gesture, abstract design, contrast, and focal points. Class assignments will emphasize a scenic and literal approach to storytelling. Students will read and work from various classic and modern texts that reflect a contemporary point of view.

**E0975 Introduction to Drama**
**Grade: 9-10**
**Unit of Credit: ½**
**Prerequisite: None**

This course is designed to introduce students to the fundamentals of theater arts, including the essential elements of drama, including reading, interpreting, and analyzing a variety of plays across genres and periods. Students will bring scenes to life through acting exercises, explore staging techniques, and learn the basics of technical theater. Through group projects, scene work, and individual presentations, students will gain confidence and insight into the collaborative nature of theater, building a strong foundation in drama and communication skills.

# MUSIC

The Music Department offers a multifaceted program to accommodate a wide range of student interest levels and abilities. Its objective is to develop cultural and aesthetic values of the student through the art of performance and musical study. Individual guidance, a major component of the program, broadens the student's background and promotes self-sufficiency in music.

## COURSE OFFERINGS

**COURSES**

| | | | |
|---|---|---|---|
| **A0710** | **CONCERT BAND 7-8** | **A1010** | **MUSIC TECHNOLOGY** |
| **A0720** | **GENERAL MUSIC 7** | **A1013** | **WORLD MUSIC** |
| **A0802** | **GENERAL MUSIC 8** | **A0941** | **PERCUSSION ENSEMBLE 1** |
| **A0910** | **SYMPHONIC BAND 9-12** | **A1019** | **PERCUSSION ENSEMBLE 2** |
| **A0921** | **CHORUS 9-12** | **A0942** | **GUITAR ENSEMBLE 1** |
| **A0940** | **GENERAL MUSIC 9-12** | **A1021** | **GUITAR ENSEMBLE 2** |

### A0710 Concert Band 7-8

**Grade: 7-8**
**Unit of Credit: ½**
**Prerequisite: Previous training on a musical instrument**

This course is designed for students looking to strengthen their foundational skills on a wind or percussion instrument. Students will learn the basics of music reading, instrument technique, tone production, and ensemble playing. Emphasis is placed on developing fundamental skills, including rhythm, pitch, dynamics, and articulation, while fostering teamwork and musicality. The ensemble will prepare and perform a variety of accessible repertoire, culminating in school and community performances. This course provides a supportive and engaging environment for students to build confidence and grow as musicians. Instruments are available for rental if needed. Students are expected to perform in both the Winter and Spring Concerts.

### A0720 General Music 7

**Grade: 7**
**Prerequisite: None**

7th Grade General Music will enable students to create and perform music, listen and respond to musical compositions, and incorporate their musical experiences with other activities and subjects. Students will be able to understand basic elements of music such as rhythm, melody, harmony, and composition. Some of our units include music notation, music through the generations, music from around the world, musical theater, music careers, and music technology.

**A0802 General Music 8**
**Grade: 8**
**Prerequisite: None**

Building off of previous general music courses, 8th Grade General Music class will continue to expose students to the fundamentals of music, how it can be created, various genres and how to utilize audio technology and recording equipment. Some of our units include music notation, music through the generations, music technology, foley art, sound design, and film scoring.

**A0910 Symphonic Band 9-12**
**Grade: 9-12**
**Unit of Credit: 1**
**Prerequisite: Concert Band 7-8**

This course is designed for experienced student musicians seeking to refine their skills and perform advanced band repertoire. Emphasizing technique, musicality, and ensemble precision, students will engage with challenging repertoire. The curriculum focuses on advanced music reading, tone production, articulation, and interpretive skills, while encouraging leadership within the ensemble. Students are expected to demonstrate strong practice habits and engage in self-performance evaluations. The ensemble will perform in school concerts, community events, and may participate in adjudicated festivals and competitions. This course prepares students for collegiate-level performance and fosters a deep appreciation for advanced ensemble music. Students are expected to perform in both the Winter and Spring Concerts as well as local parades.

**A0921 Chorus 9-12**
**Grade: 9-12**
**Unit of Credit: 1**
**Prerequisite: None**

This course is designed to give the student an enriching and diverse vocal music education. This class provides a number of performance opportunities for students in a variety of settings. The daily objective of the course is to foster and promote musical growth through singing by the student. As a member of the choral program, group effort and cooperation is necessary to be successful. Chorus is a skilled effort in which each student is expected to show technical and musical growth throughout the year. Students will demonstrate how to read and perform the level of music being studied in class. The High School Chorus performs twice a year, at the Holiday Concert (December) and the Spring Concert (May).

**A0940 General Music 9-12**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: None**

This broad exploration of music provides a foundational knowledge in music appreciation, theory, history, and basic performance skills. Students will learn to read and interpret music notation, explore diverse musical genres and cultures, and develop listening and analytical skills. No prior musical experience is required—just an interest in learning and experiencing music in new ways. This course is ideal for students looking to build a strong foundation in music and develop a lifelong appreciation on a deeper level.

**A1010 Music Technology: Electronic Performance**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course introduces students to the world of music production and technology, building on foundational music knowledge. Students will explore various digital tools and software used in music creation, including digital audio workstations (DAWs), MIDI programming, and audio recording/editing techniques. Emphasis is placed on understanding the technology behind music production, sound design, and electronic music composition. Students will work on hands-on projects, such as recording, mixing, and producing their own compositions, while learning the technical skills required for modern music production.

**A1013 World Music**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course is designed with two units: World Music and American Pop Music History. The objective of the first unit is to help students develop new ways of thinking about music in other cultures, how songs can have significance that go beyond entertainment, types of musical instruments, and how to recognize and describe music in our own community. During the second unit, students will understand how music has played an important role in shaping the identity of genres through the 20th century in the United States. Students will be evaluated on their knowledge throughout this course through written documented work.

**A0941 Percussion Ensemble 1**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course offers students the opportunity to develop their skills as percussionists through exploring a wide range of percussion instruments and musical styles. Students will perform ensemble repertoire that fosters both individual musicianship and group collaboration with emphasis on rhythm, timing, expression, and dynamics. Students will gain experience in music reading, listening skills, professionalism, organizational skills, and performance etiquette. The ensemble will showcase their talents through school concerts, community performances, and possible festival participation. This course is ideal for students looking to deepen their musical understanding while contributing to an ensemble.

**A1019 Percussion Ensemble 2**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: Percussion Ensemble 1**

Designed for motivated percussionists seeking to continue their study. This advanced course focuses on refining technical proficiency, musical interpretation, and ensemble performance. Students will study complex percussion literature with emphasis on advanced rhythms, intricate ensemble coordination, and heightened musical expression. The course will include performance opportunities and small group features, fostering leadership and independence. Students are expected to demonstrate strong practice habits, contribute to ensemble discussions in a professional manner, and participate in critical listening and peer feedback. Performances will include school concerts, community events, and potential adjudicated festivals, offering real-world experience in professional-level performance standards.

**A0942 Guitar Ensemble 1**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course is designed for students interested in learning the fundamentals of guitar playing and ensemble performance. Students will develop basic guitar technique, including chords, strumming, fingerpicking, and music reading. The course will cover a variety of musical styles while emphasizing rhythm, melody, and harmony within a group setting. Students will also learn essential music theory and develop listening and collaboration skills. The course culminates in group performances that showcase students' progress. No prior experience is required—just an interest in learning and making music with others.

**A1021 Guitar Ensemble 2**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: Guitar Ensemble 1**

This course is designed for experienced guitarists seeking to refine their technique and perform more challenging ensemble repertoire. Students will develop advanced skills in fingerstyle, improvisation, complex chord voicings, and interpretation across a variety of genres. Emphasis is placed on precision, expression, and collaborative performance. Students will also deepen their understanding of music theory. The ensemble will participate in school concerts, community performances, and potential adjudicated events. This course prepares students for collegiate-level performance that fosters artistic growth and leadership within a musical ensemble.

# HEALTH AND PHYSICAL EDUCATION

The Health Science Department incorporates curricula designed to impart knowledge to students regarding total wellness. Both the Physical Education and Health programs engage all three domains of wellness: physical, mental, and social health. The goal of the Health Science Department is to help each student strive to live healthier lives and thus, improve their quality of life at school, at home, and in the community at large.

## COURSE OFFERINGS

| | COURSES | | ELECTIVES |
|---|---|---|---|
| **P0720** | **PHYHSICAL EDUCATION 7** | **P0102** | **FITNESS TRAINING** |
| **P0801** | **PHYSICAL EDUCATION 8** | **P1103** | **ETHICS IN SPORTS** |
| **P0900** | **PHYSICAL EDUCATION 9-12** | **P1104** | **SPORTS MARKETING** |
| **P0800** | **HEALTH 8** | | |
| **P1000** | **HEALTH** | | |

**P0720 Physical Education 7**
**Grade: 7**
**Unit of Credit: ½**
**Prerequisite: None**

The Middle School curriculum focuses on sportsmanship, physical fitness, teamwork, and communication and expands on the knowledge of basic team sports and basic offensive and defensive strategies. Teachers will choose a variety of activities for their students that will give them a well-rounded/diverse Physical Education.

**P0801 Physical Education 8**
**Grade: 8**
**Unit of Credit: ½**
**Prerequisite: None**

The Middle School curriculum focuses on sportsmanship, physical fitness, teamwork, and communication and expands on the knowledge of basic team sports and basic offensive and defensive strategies. Teachers will choose a variety of activities for their students that will give them a well-rounded/diverse Physical Education.

**P0900 Physical Education 9-12**
**Grade: 9-12**
**Unit of Credit: ½**
**Prerequisite: None**

The High School curriculum emphasizes individual and team sports, personal wellness, communication, and teamwork, with a particular focus on lifetime activities, which have a carry-over value into adulthood. Students will recognize and develop their own abilities while forming an appreciation for the talents of others. Regular attendance and satisfactory participation in physical education class are required.

**P0800 Health 8**
**Grade: 8**
**Unit of Credit: ½**
**Prerequisite: None**

This course focuses on students' physical, social, and emotional well-being. Topics covered include introduction to health, decision-making, goal setting, communication, mental health, self-esteem, stress management skills, introduction to drug abuse, and introduction to human sexuality.

**P1000 Health**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

This course helps students understand how their behaviors and attitudes affect their health. Topics that are covered include wellness, refusal skills, personal safety, substance abuse (alcohol, tobacco, and other drugs), violence prevention, nutrition, fitness, mental illness, goal setting, stress management, communication, relationship management, and decision making. Human sexuality is also covered.

## ELECTIVES

**P0102 Fitness Training**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

Fitness Training is a one semester (half-year) elective Physical Education course designed to give students the opportunity to learn and apply strength training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio-respiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, nutrition and overall fitness training and conditioning. This course will include both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

**P1103 Ethics in Sports**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

Ethics in Sports is a one semester (half-year) elective class course designed to introduce students to ethics within the sporting context to examine the conceptual framework for ethical dilemmas and decision-making. The course will cover issues including fair play, sportsmanship, gamesmanship, Title IX , and drug use for performance enhancement. The values of sport and the basis for ethical decision-making in sport will be examined. Moral significance of sport will be explored. This course is intended to develop and foster critical thinking skills, to learn and understand the philosophical and ethical background of sport, and to improve verbal and written communication skills.

**P1104 Sports Marketing**
**Grade: 10-12**
**Unit of Credit: ½**
**Prerequisite: None**

Sports Marketing is a one semester (half-year) elective class course designed to introduce students to marketing concepts as they apply to the sports and entertainment industries. The topics this course will cover include basic marketing concepts, market segmentation (demographics, geographics and psychographics), branding, marketing research, financing, corporate sponsorship/naming rights, and technological enhancements of marketing.

# FAMILY AND CONSUMER SCIENCES

Family and Consumer Science focuses on helping students gain practical knowledge and skills in areas like human development, personal finance, nutrition, and consumer issues in order to help students improve the quality of life for individuals, families, and communities.

## COURSE OFFERINGS

### COURSES

**L0720 HOME AND CAREERS**

**L0720 Home and Careers**
**Grade: 7**
**Prerequisite: None**

The Home and Career Skills curriculum is in a unique position in the overall middle-level educational environment to support every academic area through its real-world experiences and to prepare students to participate effectively in family, community, and workplace settings. Providing a challenging curriculum encourages students to pursue further learning at the high school level. Through experiential activities, students learn how to synthesize information, utilize prior knowledge, work cooperatively, and apply critical thinking skills.

# CAREER & TECHNICAL EDUCATION

The Elmsford Union Free School District, in cooperation with the Southern Westchester Board of Cooperative Educational Services (BOCES) Center for Career Services, offers a program of occupational education designed to prepare students for gainful employment as skilled workers and technicians in recognized occupational areas. Many students graduating from these programs decide to continue their education at a technical institute or college. Students can begin these programs in junior year.

Students enrolled in the occupational education program can receive four credits for each year in the program.

The following courses are offered at the Center for Career Services in Valhalla, NY. Students attend the Center for a half-day (PM), and attend Alexander Hamilton High School for the remaining part of the day for other required subjects. Sessions are assigned by counselors at AHHS and transportation is provided.

## COURSE OFFERINGS

**ANIMAL SCIENCE**
**3D ART**
**ARCHITECTURE AND INTERIOR DESIGN**
**AUTO CAD**
**AUTOMOTIVE TECHNOLOGY**
**BARBERING**
**CISCO (NETWORKING)**
**COLLISION TECHNOLOGY**
**COMMERCIAL ART/MULTIMEDIA**
**CISMA - COMPUTER INFORMATION SYSTEM**
**MEDICAL ADMINISTRATIVE ASSISTANT**
**CONSTRUCTION/PLUMBING**
**ELECTRICAL CONSTRUCTION**
**COSMETOLOGY**
**CULINARY ARTS**
**EMERGENCY MEDICAL SERVICES**
**FASHION DESIGN / MERCHANDISING**
**NURSE ASSISTANT**
**PRE-ENGINEERING**
**SECURITY, LAW AND POLICING**
**SOUND PRODUCTION**
**TV / VIDEO PRODUCTION**

In addition to the Career and Technical Education programs in the specified areas listed, BOCES offers an Introduction to Career and Technical Education. This program provides special education students with career skills and vocational training that can give them a head start in the job market by providing practical, hands-on career training. This program is open to students by special arrangement with their counselor.

**Transportation**
All students must travel to and from the Tech Center by a bus provided by Alexander Hamilton High School. Students in the afternoon session will leave Hamilton at 11:25 AM and return at 3:00 PM. Students are not permitted to drive cars to the center without written permission from parents, BOCES and the high school administration. Permission will only be granted for special reasons and with prior approval.

**College Placement**
Center for Career Services students will receive assistance in applying to two-year and four-year colleges and receive information about continuing in their occupational specialty after high school. Your Alexander Hamilton High School counselor, in cooperation with the guidance staff at BOCES, will work to assist you in finding colleges to meet individual needs.

**Job Placement**
Staff at the Center for Career Services specialize in job placement and development. They work closely with industry and trade unions to assist graduates in locating jobs and entering apprentice programs.

# SPECIAL EDUCATION

Special Education at Alexander Hamilton Junior-Senior High School provides a continuum of services to meet the needs of students with disabilities. The majority of special education students must meet the higher state standards and graduation requirements. Our program strives to prepare students for the rigor of these mandates. This goal is accomplished through providing opportunities for inclusive education and a continuum of support services. The comprehensive service delivery model includes regular classes, resource room, support classes, testing modifications, and program modifications. Additionally, "safety nets" are in place in the event a student does not meet the requirements of a Regents diploma in any given subject.

Alexander Hamilton Junior-Senior High School also offers a range of programs for students whose needs cannot be met through the inclusive model. These students, focusing on academic & social skills, will typically graduate with a New York State Alternative Assessment Diploma. In addition, the high school will be offering a supplementary Career Development and Occupational Studies Commencement Credential.