

**NEWBURGH FREE ACADEMY** 

# CHARTING YOUR COURSE 2025-2026

# Table of Contents

Table of Contents	2
Counselors by Building	4
Our Campuses	5
Understanding Programs of Study	6
Grade Level Requirements	7
College Credit Offerings	7
New York State Science Honor Society and Criteria	11
Advanced Placement Course Offerings	12
Graduation Requirements	13
Graduation Requirements (continued)	14
GPA & Grading	16
Academic Intervention Services (AIS)	18
NCAA & Athlete Eligibility	18
Course Planner	19
English Language Arts	20
Mathematics	24
Mathematics Electives	24
Mathematic Courses	25
Science	28
Science Courses	29
Social Studies	36
Social Studies Courses	37
Fine and Performing Arts	42
Music Courses	43
Performing Arts Courses	45
Visual/Studio Art Courses	47
Physical Education & Health Courses	50
World Languages	52
Languages Other Than English (LOTE) Course	52
Career and Technical Education	56
Architecture & Engineering Course Descriptions	57
Auto Body Repair Course Descriptions	58
Automotive Technology Course Descriptions	59
Barbering Course Descriptions	60
Computer Science and Coding Course Descriptions	61
Construction Course Descriptions	62
Cosmetology Course Descriptions	63
Program is at NFA North	64
Criminal Justice & Security Course Descriptions	64
Culinary Arts and Restaurant Management Course Descriptions	65
Electronics Course Description	66
Fashion Course Descriptions	67
Health Science Education Pathway Overview	68
Program at NFA North Campus	69
Health Science Career Pathway	69
Junior Reserve Officer Training Corps, Air Force	70
Aerospace Science, Leadership Education, and Wellness Course Descriptions	71
Nutrition Course Pathway	72
Photography Course Descriptions	73
Video Production Course Descriptions	74
Visual Communications/Graphics Course Descriptions	75
· · ·	

Welding Course Descriptions	76
Third Unit Options	77
North Elective Courses	78
Studio Art Courses	79
P-TECH (NFA North)	80
Cyber Security	82
Teacher Preparation Academy & SMART Scholar Early College Teaching Pathway	83
English as a New Language/ Departamento de Inglés como Nuevo Idioma	84
Air Force Junior Reserve Office Training Corps	90
Special Education Department	91

# Counselors by Building

NFA MAIN CAMPUS 845-563-5500	NFA NORTH CAMPUS 845-563-8410	NFA WEST CAMPUS 845-568-6560
Pamela Bonsu	Noemi DeLeon	Lakeya Stukes
Thomas Hill	Edwin Quezada	
Bertha Hurtado-Kuhn	Jennifer Neal	
Catherine O'mara-Cherubin	Jason McAllister	
Eric Katz		NFA EVENING SCHOOL 845-563-5500
Heather Kraus		
Juana Stamo		
Hanna Voerg		
Julissa Wilson		

The NFA Counseling Web Site may be found at http://www.newburghschools.org/schools/nfa/guidance.php for all general information, course offerings and contact information. Click on Charting Your Course within the Counseling and Guidance home page for complete NFA course listings.

# Our Campuses

Newburgh Free Academy is a comprehensive high school offering several elective opportunities. In addition to a New York State Regents Diploma, many of these electives offer students opportunities to take New York State licensing exams. NFA Main and North campuses offer advanced placement and honor-level courses. Regardless of campus choice, all NFA students may participate in all interscholastic sports and club activities as per district policy.

### NFA MAIN CAMPUS

The Campus is located at 201 Fullerton Avenue in the City of Newburgh. NFA Main offers a comprehensive set of rigorous coursework including early college experiences such as Advanced Placement courses, the Marist College Smart Scholars Program, and coursework through Mercy College and SUNY Albany. Additionally NFA Main Campus houses Career and Technical Education (CTE) courses and specialized programs as follows: Architectural/Engineering Design, Automotive, Barbering, Ceramics, Cosmetology, Culinary Arts, Fashion, Lifetime Wellness and Fitness, Performing Arts, Visual Arts, Welding, & AFJROTC.

### NFA NORTH CAMPUS

The Campus is located at 301 Robinson Avenue in the City of Newburgh. NFA North offers a comprehensive set of rigorous coursework including early college experiences such as P-TECH, Advanced Placement courses, and coursework through Mercy College and SUNY Albany, Additionally NFA North Campus houses Career and Technical Education (CTE) courses and specialized programs as follows: AFJROTC, Criminal Justice, Health Related Services.

#### NFA WEST CAMPUS

NFA West seeks to cultivate student self-esteem by offering a non-traditional, educational experience. NFA West Campus is a school of choice. Honoring student choice paves the way for students to take charge of their education. The Goal of this campus is to provide positive learning experiences that are flexible and personalized. Not all students are successful in a traditional environment. We strive to provide opportunities for academic success through non-traditional approaches to learning in a supportive environment.

### NFA EVENING CAMPUS

NFA Evening Campus provides additional opportunities and flexibility for students who may have fallen behind in their coursework or are interested in accelerating their coursework by taking additional courses. Students in the Evening Campus can attend as a stand alone experience or may be dually enrolled in both day and evening programming. Students who attend the Evening Campus can participate in credit accrual, credit recovery, and quarterly recovery opportunities that are customized to meet the individual goals of each scholar. Additionally students may work toward a high school equivalency TASC credential. Other benefits of the evening school include:

- Flexible schedule for those scholars who need it (i.e. work, interest, personal commitments, etc
- Increased access to AP, College, CTE, and recovery opportunities
- Extended block periods allow for in depth study of the subject and establishing strong faculty relationships
- Student centered focus on academic and life plans and mentorship opportunities
- Graduation portfolios
- Students as active community partners
- Student self-awareness and active partners in their educational plan

The Program of Studies has been designed to support academic, career and college planning by delivering clear descriptions of course offerings. It is organized by subject with a special section describing in detail the various Career and Technical Education opportunities that NFA has to offer its scholars. Scholars and parents should review this guide carefully, with the intention of exploring their interests and abilities and furthering their educational and vocational goals through their selected academic program. Through careful reflection and personalized, thoughtful course selection, students can realize the school's mission of Inspiring students to become tomorrow's leaders beyond Academy Field.

# **COURSE SELECTION**

In January, counselors will start to meet with students to review their current academics, personal goals, and career plans. During this meeting, students will review their course choices with counselors. Counselors will work with students to align their choices with their future career interests and encourage them to select an academically rigorous course load based on academic performance. If parent(s)/guardians would like to participate in this process, please contact your child's school counselor. Some courses may or may not be offered based upon enrolment. Not all requests will always fit in a given schedule. In this case, students will prioritize choices and identify options if a specific course cannot fit in their schedule.

# PREREQUISITES

Course offerings often build upon one another's course content. Scholars need to establish a firm foundation before moving onto more advanced work, certain courses require prior preparation. Scholars should be sure they have the prerequisites for a course before selecting that course.

# VALEDICTORIAN/SALUTATORIAN

Only students in attendance for a minimum of two years at Newburgh Free Academy are eligible for consideration.

# SENIOR RANK

- A. Based on all final grades of high school courses earned until the end of Grade 11 (six semesters, including Gr. 8 accelerated courses and summer school)
- B. All students will be ranked with the exception of newly entering seniors if their rank would be in the top two students and/or sending grades cannot be verified.
- C. Students accelerating from grade 10 to grade 12 will be ranked and designation on the list made accordingly.

# FINAL RANK

- A. At the end of the 3rd marking period of grade 12 by computing all grades: final grades for half year courses completed as well as the average of three quarterly grades for full year courses and the quarterly grade for half year courses in progress.
- B. Final rank will be used for the final transcript in June and will determine the number of day school candidates for graduation.

# **NON-GRADUATES**

- A. Students returning for the full year will not be ranked with the new graduating class.
- B. January graduates will not be ranked.

# **NEW ENTRANTS**

A. Students entering after the Official Rank is determined in the Fall will be ranked unofficially (approximately) until the Final rank after the third marking period when they will be included as per above.

# Grade Level Requirements

The Newburgh Enlarged City School District Board of Education established the following grade level requirements.

### GRADE LEVEL CLASSIFICATION AND REQUIRED CREDITS FOR PROGRESSION COURSE LOAD- ALL STUDENTS SHOULD CARRY A MINIMUM OF 5 CREDITS PER YEAR EXCLUSIVE OF P.E.

9th Grade	10th Grade	11th Grade
Physical Education (0.5)	Physical Education (0.5)	
<ul> <li>(1) Credit from: English 9 or Global Studies or U.S. History</li> <li>AND (1) Credit from any of the following English 9 Mathematics Science U.S. History</li> </ul>	<ul> <li>(6) Credits from: English 9 Global Studies I and II Mathematics Science</li> <li>AND (4) Elective Credits</li> </ul>	(2) Credits each from: Mathematics Science
(2.5) Credits Total	(10) Credits Total	15.5 Credit Total

# **APPEAL PROCESS FOR HONORS/AP COURSES**

Currently NECSD has established criteria for participation in Honors/AP courses. Students whose performance does not meet or exceed the criteria for Honors/AP/College courses may appeal this decision. A student wishing to appeal should complete the Course Appeal Form and return it to his/her Building Principal. These forms are available in the Guidance Office. Please note: To be reconsidered for Honors/AP/College courses it is important that you demonstrate commitment and improvement. If your performance remains the same or declines, your appeal will not likely be successful for the following school year. All appeals will be decided after Final grades have been posted.

# **College Credit Offerings**

In preparing for Beyond the Academic Field, it is important for scholars to select courses that display their academic potential and interest. NFA offers its scholars various opportunities to participate in college level courses offerings during their regular school day at reduced rates. Tuition rates can vary based on colleges and universities programs. As part of NECSD's commitment to equity, all scholars should be encouraged to participate in these accelerated courses as they are designed to promote college readiness skills while allowing students to gain college credit while still in high school. Please see your counselor for more information on any of the following programs and requirements.

### MERCY COLLEGE

Experience the rigor of college courses while attending NFA can better prepare students for the next level of academics. The Mercy College High School Achievement Program allows eligible high school juniors and seniors the opportunity to better understand and experience the expectations and rigor of college. Mercy College provides an opportunity for students to jump-start their college career by offering college credit for select advanced placement (AP) and college level courses. Taught at the high school during the academic

year by approved Newburgh Free Academy faculty, these college credit-bearing courses can be used as transfer credits at Mercy College as well as many other colleges and universities. Please see your School Counselor for details.

NFA Course	Mercy Course Equivalent	Term
Freshman English 1 Course 1143	Written English and Literary Studies I -ENGL 111 HNA- Main Campus -ENGL 111 LGA- North Campus	Fall Semester (One Semester Course)
Freshman English 2 Course 1153	Written English and Literary Studies I -ENGL 112 HNA- Main Campus -ENGL 112 LGA- North Campus	Spring Semester (One Semester Course)
Probability & Statistics Course 3513	Statistics (MATH 122 HNA)	Year Long (Two Semester Course)
Pre-Calculus Honors Course 3322	Pre-Calculus (MATH 201 HNA)	Year Long (Two Semester Course)
AP Calculus AB* Course 3403	Calculus I (MATH 260 HNA)	AP Course
APUSH* Course 4113	American History through 1877 (HIST 105 HNA) (HIST 106 HNA)	AP Course
AP Psychology* Course 4403	Introduction to Psychology (PSYN 101 HNA)	AP Course
AP Government* Course 4303	Political Power in America (POLS 101 HNA)	Fall Semester (One Semester Course)

# Syracuse University Project Advance (SUPA)

Experiencing the rigor of a college course while still in high school can help prepare students for the jump to the next level by helping them understand the expectations and challenge of college academics. With over 200 partner schools and more than 800 certified adjunct instructors, Project Advance is one of the oldest, largest and most respected concurrent enrollment programs in the country. Accredited by the National Alliance of Concurrent Enrollment Partnerships (NACEP), Project Advance offers over 50 courses to high school students in the US and abroad. Taught at the high school during the academic year by approved Newburgh Free Academy faculty, these college credit-bearing courses can be used as transfer credits at Syracuse University as well as many other colleges and universities. Students can take the AP College Board Exam corresponding to these SUPA courses. Please see your School Counselor for details.

NFA Course	Syracuse Course Equivalent	Term
College Biology	General Biology I & II	Year Long
Course 5033	BIO 121 & 123/124 - 8 Credits	(Two Semester Course)
College Chemistry Course 5153	General Chemistry I CHE 106/107 - 4 Credits General Chemistry II CHE 116/117 - 4 Credits	Year Long (Two Semester Course)
College Physics	Major Concepts of Physics I & II PHY	Year Long
Course 5173	101 & 102 - 8 Credits	(Two Semester Course)

#### **UNIVERSITY AT ALBANY (SUNY)**

SUNY Albany offers high school students the opportunity to begin their college education at an affordable cost, thereby providing a bridge from high school to college. The University in the High School Program at the University at Albany was established in 1983 within the former College of Humanities & Fine Arts, now part of the College of Arts & Sciences. UHS Program courses provide students with the academic challenges of college-level curricula during their final year(s) of high school. As a "bridging" experience to college, UHS courses can help students begin to develop the skills and experience necessary for academic success in higher education. Enrollment in UHS courses may provide future opportunities to students, such as the ability to enroll in higher-level college courses or to complete a four-year degree in a shorter amount of time.

#### The Science Research program is in phases over 3 years: they can be any or all of these:

Forensics is ACHM 250 at Albany - Introduction to Forensic Chemistry (3 credits, Full Year) - Juniors & Seniors

CAS 109 - Intermediate Science Research (2 credits, Summer) - Juniors

CAS 110 - Intermediate Methods of Research (4 credits, Full Year) - Juniors

CAS 209 - Advanced Science Research (2 credits, Summer) - Seniors

CAS 210 - Advanced Methods of Research (4 credits, Full Year) - Seniors

#### SUNY ORANGE

Students are able to take Dual enrollment high school/college classes as part of the SUNYOrange Community College in the High School Program (<u>https://sunyorange.edu/cchs/</u>) As a "bridging" experience to college, CCHS courses can help students begin to develop the skills and experience necessary for academic success in higher education. Enrollment inCCHS courses may provide future opportunities to students, such as the ability to enroll in higher-level college courses or to complete a four-year degree in a shorter amount of time.

SUNY Orange's P-Tech program is a new model for teaching and learning that brings together high school, college, and the world of work in order to prepare students for the complex and ever-changing global workforce in information technology. Students in the P-Tech graduate with an Associates in Applied Science degree from SUNY Orange, in addition to their high school diplomas. They also obtain the skills and knowledge they need to continue their studies or step seamlessly into well-paying, high-potential jobs in the Computer Information Technology industry. P-Tech's curriculum will offer project based learning experiences and real-world applications of science, technology engineering, and math. Students will develop important academic and career skills as they learn through projects developed in collaboration with IBM. Due to the accelerated pace of learning in P-Tech, the length of the school day and the school year is longer for enrolled students.

NFA Course	SUNY Orange Course Equivalent	Term	AP Exam Eligible
AP Environmental Science	PSC 140	Full Year	Yes
College Algebra (Pre-Calc A)	College Algebra	Fall	No
College Trig (Pre-Calc B)	College Trig	Spring	No
AP Biology	Bio 101 Bio 102	Fall Spring	Yes
AP US History*	US 101 US 102	Full Year	Yes
AP World History*	WH 111 WH 112	Full Year	Yes

#### \*Note: NFA North campus only

#### THE NECSD MARIST ECHS

The Newburgh Enlarged City School District has partnered with Marist College to create a seamless and innovative program focused on workplace learning and STEM academic content, with a focus in computer science. The NECSD Marist ECHS program will be open to 30 current 9th grade students for the inaugural year and 30 rising 8th grade scholars who are eligible for 9th grade the remaining years. In the event that there are more than 30 applicants for NECSD Marist ECHS program, a weighted random lottery will take place. Selection will identify students as members of subgroups that are historically underrepresented in higher education and STEM fields.

Sequence of courses for Marist ECHS students: These courses are only available for students selected to participate in the Marist ECHS program starting their Freshman year. Students can only enter the program during their Freshman year. There are 35 seats. If a student does not successfully complete a course, they will not be able to continue in the program.

9th Grade: Fall - Intro to Computer Science (.5 elective credit)/ Spring - Digital Citizenship (1 elective credit/ 3 credits Marist) Summer - Intro to Programming (4 credits) at Marist
10th Grade: Full Year - Software Development I (1 elective credit/4 credits Marist) Summer - Software Development II (4 credits) at Marist
11th Grade: Full Year - Intro to Statistics (1 Math credit/3 credits Marist) Summer - either Cybersecurity or Game Design (4 credits) at Marist
12th Grade: Full Year - Calculus AB(1 Math credit/4 credits Marist) \*lab component

#### Math Track I

8th Grade: Algebra I 9th grade: Geometry 10th grade: Algebra II 11th grade: Statistics & Pre-Calc 12th grade: Calc AB

### Math Track II

9th Grade: Algebra I 10th Grade: Algebra II 11th Grade: Statistics & Pre-Calc 12th Grade: Calc AB

# New York State Science Honor Society and Criteria

The first statewide science honor society in the United States is the STANYS-supported New York State Science Honor Society. Established in 1991, it is also endorsed by the New York State Science Supervisors Association and the New York State Assembly. Its purpose is to encourage an interest and understanding of science and science-related careers, as well as to recognize the academic achievement in science of high school students.

Students who are members are enthused about research, participate in science related activities, have demonstrated achievement in science learning, are service-minded, and present excellent personal character. Science Honor Society members are expected to attend meetings, complete 10 hours of science engagement, and maintain grade averages cited below.

The executive board of the NYSSHS, chapter 24 at NFA has set grade requirements for membership in the NYSSHS, chapter 24 at NFA as follows:

88% average in math courses92% average in science courses90% overall average in all courses

### National Honor Society Criteria

Students are only eligible to be inducted into the National Honor Society at the end of their Junior year. At the end of the 1st semester, junior class rankings are requested and printed. Any junior who has an overall cumulative average of 89.5% or higher are eligible to be inducted. At this time, eligible students receive documents that need to be completed. Once the deadline to submit the documents has passed, all faculty members are given the opportunity to accept or reject each student's admission into the National Honor Society. If the students who submitted their documents are accepted by the faculty they are inducted during the first week of June. During their Senior year, National Honor Society members are expected to attend meetings, complete 20 hours of community service, maintain a cumulative average of 89.5%, and continue to display qualities that demonstrate character, leadership, scholarship, and service.

# Advanced Placement Course Offerings

Advanced Placement (AP) Courses are rigorous, college-level classes in a variety of subjects that give students an opportunity to gain the skills and experience colleges recognize. Nationally, the AP program is administered by the College Board, which develops the course curriculum for each course, trains teachers and designs and administers AP examinations. Currently NFA offers 23 AP courses. The availability of these course offerings may vary from year to year because of the faculty certification and student interest.

Any student interested in an AP course should discuss it with their current teacher, school counselor and parents. The necessary documentation should be completed and submitted to the content Director for approval. As part of NECSD's commitment to equity, all scholars would be encouraged to discuss a course of study that includes AP courses to better prepare them for college beyond Academy Field.

AP Exams are expected to be taken by all students in the course in order to receive the course average weight of 1.05. This includes any dual enrollment AP courses that are also Early College Courses.

English	Social Studies	Mathematics	Science	Other Subjects
AP English Literature and Composition	AP Macroeconomics	AP Calculus AB	AP Environmental Science	AP Italian Language and Culture
AP English Language	AP Psychology	AP Calculus BC	AP Physics C: Electricity and Magnetism	AP Spanish Language and Culture
	AP United States Government and Politics	AP Computer Science A	AP Physics C: Mechanics	AP Studio Art: 2-D Design Portfolio
	AP United States History	AP Computer Science Principles		AP Studio Art: Drawing Portfolio
	AP World History			AP Music Theory
	AP Human Geography			AP Art & Design

# Graduation Requirements

Subject Areas	Credits Needed For Regents and Local Diploma	Credits Needed For Regents with Advanced Designation
English	4.0	4.0
Social Studies Distributed as Follows: U.S. History (1) Global History and Geography (2) Participation in Government (1/2) Economics (1/2)	4.0	4.0
Science Distributed as Follows: Life Science (1) Physical Science (1) Life Science or Physical Science (1)	3.0	3.0
Mathematics	3.0	3.0
LOTE	1.0*	3.0**
Art or Music	1.0	1.0
Physical Education (0.5 credits earned per year)	2.0	2.0
Health	0.5	0.5
Electives	3.5	1.5
Total	22.0	22.0

Exams for Regents Diploma	# of Exams	Passing Scores **
English Language Arts	1	65
Social Studies	1	65
Science	1	65
Mathematics	1	65

#### **Plus One Pathway:**

- Pass an additional math Regents examination in a different course
- Pass an additional science Regents examination in a different course
- Pass an additional social studies Regents examination in a different course
- Pass a NYSED approved CTE pathway assessment (Please see approved pathways noted in CTE Section)
- Pass a NYSED approved pathway assessment in the Arts
- Pass the Spanish and Italian Checkpoint B Examination (Oneida Herkimer-Madison BOCES, given after Spanish 3, Italian 3, & Spanish for Native Speakers) or any other NYSED approved pathway assessment in a Language other than English (LOTE)
- Career Development and Occupational Studies CDOS-Students who complete all the components of the CDOS commencement credential option one (program) or option two (assessment) may use that credential to meet the +1 pathway requirement toward a local or Regents diploma. Note: CDOS may also be earned as a standalone credential for those students unable to meet the other requirements of a Regents or local diploma. Please see your counselor for more information.

# Graduation Requirements (continued)

# **Regents with Advanced Designation Exam Requirements**

Depending on the pathway a student chooses, the Regents diploma with advanced designation assessment requirements using pathways listed below.

Traditional Combination	ELA, Global History and Geography, US History and Government, 3 math, 2 science (1 must be life science and 1 must be physical science) = 8 assessments. In addition, the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE exam OR a 5 unit sequence in the arts or CTE
Pathway Combination (other than STEM)	ELA, 1 social studies, 3 math, 2 science (1 must be life science and 1 must be physical science), 1 pathway (other than Science or math) or complete the requirements for the CDOS Commencement Credential = 7 or 8 assessments. In addition, the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE exam OR a 5 unit sequence in the arts or CTE
STEM (Mathematics) Pathway Combination:	ELA, 1 social studies, 4 math, 2 science (1 must be life science and 1 must be physical science) = 8 assessments. In addition, the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE exam or a 5 unit sequence in the arts or CTE
STEM (Science) Pathway Combination:	ELA, 1 social studies, 3 math, 3 science (1 must be life science and 1 must be physical science) = 8 assessments. In addition, the student must choose either 2 additional credits in LOTE and the locally developed Checkpoint B LOTE exam OR a 5 unit sequence in the arts or CTE

SPECIAL DIPLOMA ENDORSEMENTS		
HONORS ENDORSEMENT	A student earns a computed average of at least 90 on the Regents examinations applicable to either a Regents diploma or a Regents diploma with advanced designation. No more than 2 Department approved alternatives can be substituted for Regents examinations and the locally developed Checkpoint B LOTE ex- amination is not included in the calculation	
MASTERY IN MATH AND/OR SCIENCE ENDORSEMENT	A student meets all the requirements for a Regents Diploma with Advanced Designation AND earns a score of 85 or better on 3 math Regents examinations and/or 3 science Regents examinations.	
TECHNICAL ENDORSEMENT	A student meets the requirements for either a local diploma, a Regents diploma or a Regents diploma with advanced designation AND successfully completes a Department approved CTE program including the 3 part technical assessment.	

NEW YORK STATE SEAL OF BILITERACY	<ul> <li>The State Seal of Biliteracy was established to recognize high school graduates who have attained a "high level of proficiency in listening, speaking, reading, and writing in one or more languages, in addition to English." Students who successfully meet the requirements will receive a New York State Seal of Biliteracy on their diplomas.</li> <li>Students wishing to receive the New York State (NYS) Seal of Biliteracy must complete all requirements for graduating with a NYS Regents diploma*; and</li> <li>In addition to the above minimum requirement, students wishing to receive a NYS Seal of Biliteracy must earn three (3) points in each of the two (2) areas determined by the NYSED. Please see your counselor or visit: <a href="http://www.nysed.gov/common/nysed/files/criteria">http://www.nysed.gov/common/nysed/files/criteria</a> for nyssb.pdf</li> </ul>
NEW YORK STATE SEAL OF CIVIC READINESS	This is a new Seal being offered across New York State high schools starting in the 2022-23 school year. Students can earn the Seal of Civic readiness by earning a total of 6 points in two categories: Civic Knowledge (including Social Studies coursework, Regents exams, Advanced Placement courses etc.) and Civic Participation (including active membership in approved clubs, service learning projects, applicable social studies electives, civics projects and capstone projects). <u>HERE</u> is a general break-down for each category; a student cannot earn more than 4 points in either category. For more information about the Seal of Civic Readiness, please visit: <u>http://www.nysed.gov/curriculum-instruction/civic-readiness-initiative</u> additionally, families can refer to this document: <u>NYSSCR For Families</u>

\* Exceptional Learners may be excused from the requirement for 1 unit of credit in LOTE if so indicated on the IEP. They still must earn 22 Graduation credits. \*\*Students must also pass the Checkpoint B exam in addition to the 3 credits for the Regents with Advanced Designation.

**English Language Learners-** Students who are identified as English Language Learners (ELLs) pursuant to Part 154-2 Regulations of the Commissioner of Education, and who first entered school in the United States in grade 9 or above, may appeal to graduate with a local diploma if they have taken the required Regents examination in English language arts at least twice and earned a score on this exam between 55 and 59. Such students may also appeal a score within 5 points of passing (60-64) on one additional examination and graduate with a local diploma. English Language Learners are required to achieve 22 high school credits regardless of when they entered the district or the country. Credits earned prior to entering NECSD, including credits from the student's country of origin, should be used to demonstrate credits toward a New York State Diploma.

**Exceptional Learners -** NYSED required all students to earn 22 credits for graduation. However, NYSED has created a safety net for students with disabilities to meet their testing requirements for graduation. Please speak with your counselor for more information.

Diploma Safety Nets for Students With Disabilities				
Local Diploma via Safety Net for SWDs/504-Plan with Safety Net Eligibility documented in their plan.	<ul> <li>22 Credits AND</li> <li>Low Pass 55-63 on Regents exams</li> <li>Appeals of scores of 52-54 for SWDs</li> </ul>			
Compensatory Option	<ul> <li>Student may score 45-54 on one or more of the required exams (excluding ELA and Math) if they compensate with scores 65 or higher on other exams AND meet district attendance and course requirements (get course credit)</li> <li>English and math scores must be 55 or higher</li> </ul>			
Superintendent Determination	Students with IEPs may score below 55 on Regents exam(s) and pass, if the superintendent determines that the student has otherwise demonstrated proficiency in the subject area by completing designated procedure and documentation.			

Credentials				
Career Development & Occupational Studies Commencement Credential For ALL STUDENTS (effective March 2016)	<ul> <li>Provided in conjunction with diploma</li> <li>Sole exiting credential for some students with disabilities. Students must be provided appropriate opportunities to earn diploma</li> <li>OPTION 1 <ul> <li>Career Plan completed annually</li> <li>Minimum 2 units (216 hours) of study in CTE coursework, including at least 54 hours of Work-Based Learning</li> <li>Completion of Employability Profile</li> </ul> </li> <li>OPTION 2 <ul> <li>Attainment of a nationally recognized work readiness credential</li> </ul> </li> </ul>	<ul> <li>Benefits of the CDOS Credential</li> <li>Develops entry level employment skills through work-based learning</li> <li>Community Experience</li> <li>Employability Profile can be shared with employers and adult agencies</li> <li>Barriers of the CDOS Credential</li> <li>The CDOS is not a diploma and does not meet the requirements for college entrance and military enrollment.</li> <li>May not meet hiring requirements with employers.</li> <li>May not meet requirements for entry into vocational training</li> </ul>		
Skills and Achievement Commencement Credential	<ul> <li>NYSAA eligible and assessed students</li> <li>Attended 12 years excluding K, or end of year attains age 21</li> <li>CDOS learning standards instruction including community and work-based learning</li> <li>Accompanied by designated comprehensive Student Exit Summary document</li> </ul>	<ul> <li>Benefits of the Skills Credential</li> <li>Community Experience (work sites, field trips, volunteer opportunities)</li> <li>Work Skill Development</li> <li>Barriers of the Skills Credential</li> <li>This is not a diploma</li> <li>Majority of students will be entering into programs (day habilitation, pre-vocational, supported employment) following exit</li> </ul>		
Source: www.nystransitionpartners.or				

Source: <u>www.nystransitionpartners.org</u>

# GPA & Grading

# Passing grade is 65

- All courses receive a numerical grade and are considered for class rank.
- High school courses taken in Grade 8 recorded on the high school transcript carry credit towards graduation.
- Final grades as they appear on the transcript are weighted.

### Our weighting method is as follows :

Advanced Placement (AP) courses ~ Final Average x 1.05 College Courses ~ Final Average x 1.05 Honors (H) courses ~ Final Average x 1.05 Regents (R) courses ~ Final Average x 1.00 ALPHANUMERIC GRADING A = 90 - 100 B = 80 - 89 C = 70 - 79 D = 65 - 69 F = 0 - 64

**CUMULATIVE GPA:** GPA is determined by taking the weight of the course (credit value) and multiplying it by the grade received in that course. The sum of all of those values is then divided by the total number of credits to give the cumulative GPA.

# **Calculating Your GPA**

A Grade Point Average (GPA) is a weighted average of grades, considering the credits (or GPA weights) assigned to each course.

The *Grade Average* is calculated by adding the marking period grades received in a course and dividing by how many marking periods the student received grades.

Marking Period 1	Marking Period 2	Marking Period 3	Marking Period 4	Grade Average
78	82	88		82.7

In this example, since the student only had three marking periods so far you would add all three marking periods and divide that number by three. **Example:** (78 + 82 + 88= 248 then 248 Divided  $\div$  by 3 Marking Periods)

# Steps to Calculate the GPA:

**1) Grade Average × GPA Weight:** Multiply the grade received in each course by its GPA weight (usually the credit hours for the course). This gives a weighted grade for that course.

Example - (70 Grade Average × 0.5 GPA Weight =35)

2) Sum of (Grade Average× GPA Weight): Add all the weighted grades together.

Example- (92 + 55 + 89 + 65+ 35+ 49.5+ 80+ 49 = 514.5)

3) Sum of GPA Weights: Add up the GPA weights (credits) for all courses. Example - (1+1+1+1+0.5+0.5+1+0.5=6.5)

4) Divide: Divide the total weighted grades (from step 2) by the total GPA weights (from step 3).

Example - (514.5 / 6.5=79.154)

Course (Example)	Grade Average (Example)	GPA Weight (Example)	Grade × GPA Weight (Example)
Spanish	92	1	92×1=92
English 11R	55	1	55×1=55
General Chemistry	89	1	89×1=89
Geometry	65	1	65×1=65
Individual Sports	70	0.5	70×0.5=35
Media Production Tech	99	0.5	99×0.5=49.5
U.S. History	80	1	80×1=80
Web Comp Applications	98	0.5	98×0.5=49

*Final Answer:* The GPA for this example is 79.154, which reflects a weighted average based on the grades and credits (GPA weights) of the course. The students grade will be rounded up to a 79.15 as their GPA.

# Academic Intervention Services (AIS)

Academic Intervention Services are designed to assist students achieve grade level expectations in the areas of English Language Arts and Mathematics in grades K-12. These services include additional instruction that supplements the general education curriculum. The intensity of these services vary depending on student need. Currently the NECSD offers a model of intervention that provides students intervention within the content area. An additional teacher provides ongoing intervention and strategy support within the content areas. These services may be provided in a push-in model within the core classroom by an AIS teacher or through a pull-out model where students are scheduled for an AIS class". Students qualify for AIS services based on various criteria that are outlined in the NECSD AIS Plan.

# NCAA & Athlete Eligibility

# NCAA APPROVED COURSES

If you want to play sports at an NCAA Division school, start by registering with the NCAA Eligibility Center at www.eligibilitycenter.org

# Please visit the following webpage for an up to date list of NCAA APPROVED COURSES FOR NFA

### ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA, and earn an ACT or SAT score that matches your core-course GPA.

### **CORE COURSES**

This simple formula will help you meet Divisions I and II core-course requirements and I. 4 x 4 = 16

+ 4 English courses (one per year)	+ 4 math courses (one per year)
+ 4 science courses (one per year)	+ 4 social science courses (one per year)

For more information on the requirements for GPA and SAT please see <u>ncaa.org/student-athletes/future/test-scores</u>.

### THE ROLE OF THE STUDENT

<ul> <li>Freshman - Grade 9-Plan</li> <li>Start planning now! Take the right courses and earn the best grades you can.</li> <li>Ask your counselor for a list of your high school's NCAA core courses to make sure you take the right classes. Or, find your high school's list of NCAA core courses at www.eligibilitycenter.org/courselist .</li> </ul>	<ul> <li>Juniors - Grade 11-Study</li> <li>Check with your counselor to make sure you are on track to graduate on time.</li> <li>Take the ACT or SAT, and make sure we get your scores by using code 9999.</li> <li>At the end of the year, ask your counselor to upload your official transcript.</li> </ul>
<ul> <li>Sophomores - Grade 10-Register</li> <li>Register for a Certification Account or Profile Page with the NCAA Eligibility Center at www.eligibilitycenter.org .</li> <li>If you fall behind on courses, don't take shortcuts to catch up. Ask your counselor for help with finding approved courses or programs you can take.</li> </ul>	<ul> <li>Take the ACT or SAT again, if necessary, and make sure we Seniors - Grade 12-Graduate</li> <li>get your scores by using code 9999.</li> <li>Request your final amateurism certification after April 1.</li> <li>After you graduate, ask your counselor to upload your final official transcript with proof of graduation.</li> </ul>

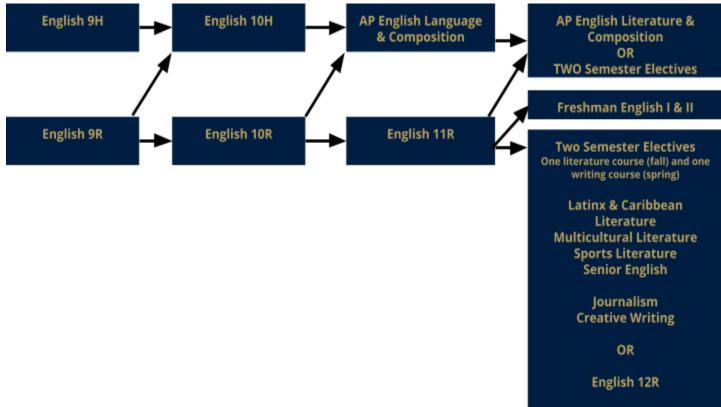
# **Course Planner**

This chart will assist you in planning your course. This will only satisfy your minimum graduation requirements. A rigorous course offering includes additional courses Mathematics, Science, World Language and other electives. Advanced Placement, Honors and College Level Courses are 1.5 credits.

Department	Grade 9 / Credits	Grade 10 / Credits	Grade 11 / Credits	Grade 12 / Credits
English	✓ 1.0	✓ 1.0	✓ 1.0	✓ 1.0
Social Studies	✓ 1.0	✓ 1.0	✓ 1.0	✓ 1.0
Mathematics	✓ 1.0	✓ 1.0	✓ 1.0	
Science	✓ 1.0	✓ 1.0	✓ 1.0	
PE	✓ 0.5	✓ 0.5	✓ 0.5	✓ 0.5
Health		✓ 0.5		
Fine Art	✓ 1.0			
World Language	✓ 1.0			
Electives	✓ 1.0	✓ 1.0	✓ 1.0	✓ 1.0

# English Language Arts

Potential Sequence of Study for English Graduation Requirements:



# **ENGLISH LANGUAGE ARTS PROGRESSION**

- A culminating activity will be used to provide a "final exam" mark in all Advanced Placement and Senior Elective Courses.
- Four quarterly common assessments will be used to provide a "final exam" mark in ELA 9R, ELA 9H, and ELA 10R.
- The ELA (Common Core) Regents Examination is administered in Grade 11R or Grade 10 Honors as a stand-alone test. Students completing Grade 11 who pass the course and the Regents exam are scheduled for 1 credit of English 12 half-year courses. Grade 12 students who need to pass the NYS Common Core Regents exam will take the NYS Common Core English Exam in January of their senior year.

The general course requirements along with the writing and learning outcomes for all courses are outlined in more detail on the grade level scope and sequence.

### English 9 Honors - CRS 1002

#### ՃՃ1.03 @ 1.0

This course has a faster pace than its Regents counterpart. Students will study major authors through a variety of genres and participate in written and oral discussions regarding the works. Students' skills in reading, writing, listening and speaking should enable them to read with excellent comprehension, think critically about and analyze more difficult text and literature. Through frequent composition and literary essays evaluated through rubrics, the importance of correct grammar and writing techniques are reinforced. Vocabulary, literary analysis, communication, and collaboration skills are essential components. The extensive work in writing includes the preparation of an inquiry-based learning project.

**Prerequisites:** Successful completion of English 8 and district requirements for honors level courses.

**Requirements**: A research project is required for this course.

#### English 9 Regents - CRS 1001

Ճ՝Ճ1.00 🖉 1.0

This course builds the foundations of reading, writing vocabulary acquisition and communications skills needed for successful completion of a sequence in English. Students will study major authors through a variety of genres and participate in written and oral discussions regarding the works. The extensive work in writing may include the preparation of an inquiry-based learning project.

**Requirements**: A research project is required for this course.

#### English 10 Honors - CRS 1012

ՃՃ1.03 @ 1.0

This course continues to build upon the foundations of English 9 and English 9 Honors. Through composition and literary essays, the importance of correct grammar and writing techniques are reinforced. Vocabulary, literary analysis and communication are emphasized. The extensive work in writing includes the preparation of an inquiry-based learning project.

**Prerequisite:** Successful completion of English 9 Honors or English 9R

**Requirements**: A research paper is required for this course. **Note:** Students will take the ELA (Common Core) Regents exam as a stand-alone examination at the end of this year of study

### English 10 Regents - CRS 1011

### ՃՃ1.00 🖾 1.0

The course continues to build upon the foundations of English 9 Regents. Students will study major authors through a variety of genres and participate in written and oral discussions regarding the works. There is extensive work in expository writing, literary analysis, and argument-based writing. Fundamentals of grammar, spelling, vocabulary and speech are emphasized.

**Requirements**: A research project is required for this course.

# English 11 Regents-CRS 1021

ՃՃ1.00 🖉 1.0

The course continues to build upon the foundations of English 10 Regents. There is extensive work with expository writing and literary analysis of a variety of genres. Fundamentals of grammar, spelling, vocabulary and speech are emphasized. **Requirements**: Students are required to take the ELA Common Core Regents Exam as a stand-alone examination. A research paper is required for this course.

# Advanced Placement English Language & Composition CRS 1113 <u>5</u> 1.05 110

AP English Language and Composition is designed to cultivate critical literacy skills for academic success at the collegiate level and for responsive civic engagement. This course includes the critical reading of diverse prose to develop an understanding of how language communicates authors' intentions and elicit readers' responses, and the study of the writing process. Students will study prose from various fields and periods primarily in American Literature. The reading and writing assignments will feature expository, analytical, and argumentative essays from a variety of authors and historical contexts.

**Note**: Students are required to take the AP exam to receive the 1.05 course weight.

Prerequisites: Successful completion of English 10 Honors or English 10R and a passing score on the NYS Common Core English Exam.

**Requirements:** One essay on each literature unit, several essays on unique literary forms, two term papers, and participation in extensive class discussions are required.

### Advanced Placement English Literature & Composition CRS 1123

A combination of sophisticated literature and writing experiences, this course is designed for students who wish to encounter college level materials. instruction and responsibilities. Understanding and analysis of writing styles will be emphasized. Aspects of literary criticism, interpretation, and form generate discussions on social and ethical issues as well as create a sophisticated format for written thought. In-depth study of selected authors and time periods develops the critical thinking skills necessary for commentary on modern issues. Special time will be allocated for in-depth preparation of the AP Exam..

**Prerequisite**: Successful completion of AP English Language & Composition or English 11 Regents and a passing score on the ELA Common Core Regents Exam.

**Requirements**: One essay on each literature unit, several essays on unique literary forms, two term papers, and participation in extensive class discussions are required.

#### English 12 Regents - CRS 1031

#### ג 1.00 ₪ 1.0

This course will include: high quality literature, reader response essays, personal essay (including college admissions essay), compare contrast, persuasive essays, creative writing, poetry as literature, poetry writing, grammar, usage and an inquiry-based learning project or research paper.

### Freshman English I (ENG 101) - CRS 1143 🛛 🖧 1.05 🥏 0.5

#### This course can be taken for 3.0 college credits.

This first course in the Freshman English sequence introduces college-level writing and revision, construction of expository essays, and research skills. Reading and class discussion center on the formal and informal essay. Research essay is required. (GE 10 when combined with COM 101)

**Prerequisites**: Successful completion of English 11R or 11H, a passing score on the NYS Common Core English Exam, and meet the requirements set by the college or university offering the course.

**English Language Arts Electives** 

These courses are interest and enrollment-driven and will only be offered if at least 15 students are enrolled. Seniors and juniors (when applicable) are eligible to enroll. Elective courses can be used to fulfill a 12th-grade English Language Arts Requirement. Students who do not elect to take a full year English course during senior year must take two single-semester courses. Students are encouraged to select one course for each semester. One selection must be a multi-genre literature course, a course that requires multiple types of literature such as poetry, essays, novels, dramas, etc.. The second selection must be a writing intensive course to fulfill the 12th-grade English Language Arts requirement.

#### **Multi-Genre Literature Courses**

#### Latinx & Caribbean Literature & Culture CRS 1121 👘 🖉 0.5

This course will examine literary and cultural production of Latin from the Spanish-speaking Caribbean while addressing the dual goal of improving scholars' written and oral expression. Issues of migration, transnationalism, and transculturation will be explored through the analysis of texts by Puerto Rican, Cuban-American, and Dominican-American Haitian-American authors.

**Requirements**: A research paper is required for this course.

#### Multicultural Literature - CRS 1161

0.5

This multi-genre literature course is based on the belief that it is important to honor the heritage of all scholars and to provide an awareness of all cultural groups within the school population. Every effort has been made to include literature from thirty cultures that reflect the composition of the population of the Newburgh Enlarged City School District. Classical authors will be paired with new voices in an overview of many genres of literature for studies intended for students of all levels of ability. The course will also scan the major contributions of African-American writers. The course will focus primarily on the autobiographies, novels, dramas, short stories, and poetry dealing with the internal and external struggles of the black American in the period from the early 1900's to the present. Participation in class discussion, journal entries, development of a portfolio of student work, essays, guizzes, and tests are requirements.

**Requirements**: A research paper is required for this course.

**Note**: Students who have placed into any developmental reading or writing courses must complete them before taking Freshman English 1. **Requirements**: The partnering college requires a fee for dual credit enrollment.

## Freshman English II (ENG 102) CRS 1153 🛛 🖧 1.05 🥏 0.5

#### This course can be taken for 3.0 college credits.

In this second course in the sequence, students learn to read critically, to organize supporting details, and to develop coherent oral and written arguments. Fiction, drama and poetry are used as common texts. An analytical research paper is required. (GE 7)

Prerequisite: Freshman English I

**Requirements**: The partnering college requires a fee for dual credit enrollment

#### Senior English - CRS 1141

@ 0.5

This course will include: high quality literature, reader response essays, personal essays (including college admissions essay), compare contrast, persuasive essays, creative writing, poetry as literature, poetry writing, grammar, usage and an inquiry-based learning project or research paper. In addition to studying high quality literature, students will prepare for successful completion of the ELA Common Core Exam.

**Requirements**: A research paper is required for this course.

#### Sports Literature- It's more than a game CRS 1201 👘 🖉 0.5

Sports is one of the central discourses of American culture with a unique blend of positive themes such as heroism, pride, identity and negative themes of cheating, scandal and disappointment. This literature course will examine the way the discourses surrounding sports are expressed in writing. Specifically, we will look at the various themes that arise in both fiction and non-fiction writing about American sports and American sports figures.

**Requirements**: A research paper is required for this course.

#### Writing Intensive Courses

#### Journalism - CRS 1181

This course is designed to develop and refine the skills and techniques for writing in journalistic style for newspapers and magazines. Techniques in gathering, analyzing, and writing news articles and features articles, editorials, and other journalistic styles will be studied and applied in order to create a profile portfolio. The student will learn the fundamentals of editing, identifying sources, organizing materials, planning, and outlining the story. Specific historical eras may be examined. A team project on ethics and an individual paper on censorship may be required. Students must demonstrate a good understanding of rules related to spelling and grammar and meet deadlines.

#### Creative Writing - CRS 1171

@ 0.5

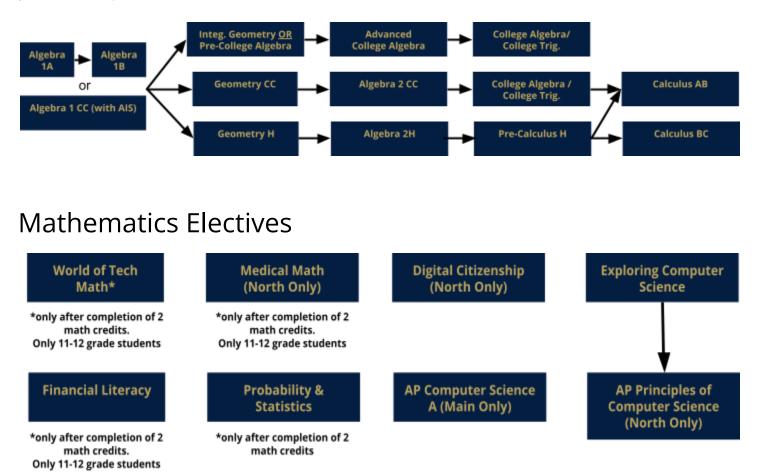
@0.5

This course is designed to open the realm of creative writing to the student. Opportunities for creative writing include, but are not limited to: autobiographical entries, play writing, sketches, poems, short stories, journal entries, and art and music interpretations. The student will be evaluated as much on the effort put forth as on the completed products. Additional topics discussed are future prospects in creative writing and its technology, digests, publishing markets, the scope of writings, and sharing of work with peers.

# Mathematics

# Sequence of Study for Mathematics Requirements

Students that wish to obtain an advanced Regents Diploma must successfully complete Algebra I Common Core, Geometry Common Core and Algebra II Common core. All "appropriate electives" can be used to fulfill the number of credits mandated by NYS Ed above and beyond the minimum graduation requirement of 3 credits. It is the expectation of the mathematics department that **all students expecting to enroll in a 2 or 4-year post-secondary institution** attain at least 4 credits of mathematics.



\*In consultation with their school counselor, student's sequence of courses can be individualized to meet their specific needs

### Algebra 1A Common Core (9) - CRS 300

Students will follow the NYS Algebra 1 Next Generation Learning Standards Curriculum. This course is the first year of a two-year course of study to complete Algebra 1 Common Core. Students enrolled in this course will take the Algebra 1 Regents Exam in June of the second year of the course. This first year covers foundational skills embedded within the Algebra 1 Next Generation Learning Standards Curriculum.

**Course Requirements:** All tests, quizzes, and assignments.

#### Algebra 1B Common Core (10,11<u>) - CRS 301</u>

Students will follow the NYS Algebra 1 Next Generation Learning Standards Curriculum. This course is the second year of a two-year course of study to complete Algebra 1 Common Core. Students enrolled in this course will take the Algebra 1 Regents Exam in June. This second year covers foundational skills embedded within the Algebra 1 Next Generation Learning Standards Curriculum while completing the curricular requirements to take the Regents examination in June.

Prerequisites: Successful completion of Algebra 1-A

**Course Requirements:** All tests, quizzes, assignments and NYS Algebra 1 Regents Exam must be completed.

### Algebra 1 Common Core (9) - CRS 302

@1.0

@1.0

@1.0

Students enrolled in this course will follow the NYS Next Generation Learning Standards. They will develop skills and processes using a variety of techniques to successfully solve problems in a variety of settings. Problem situations will include linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions. Coordinate geometry will be used to make connections between analytical and geometric representations. Measurement in problem solving will include calculating rates using appropriate units and converting within measurement systems. Data analysis will include measures of central tendency, correlation, causation, and using lines of best fit to make predictions. Elementary probability and statistics theory will be used to determine probability of independent, dependent, and mutually exclusive events.

**Course Requirements**: All tests, quizzes, assignments and NYS Algebra I Regents must be completed.

#### Pre-College Algebra (10,11,12) - CRS 311

@ 1.0

This course is designed for students to acquire and maintain the skills to successfully pass the college placement exam to ensure that when they enter their first year of College they will be able to test into credit bearing math courses. It will cover algebraic topics intended to preview the course work that students will be exposed to in Actual College Algebra. In addition, students will take practice placement exams to indicate their readiness and areas of weakness.

**Prerequisites:** Successful completion of NYS Algebra I Common Core Course and participation in the Regents Exam. **Course Requirements**: All tests, quizzes, and assignments.

#### Advanced College Algebra (11,12) - CRS 320

This is a non-calculator based course designed as a 3rd or 4th credit for students planning to attend a two or four year college, but will not major in mathematics, sciences or engineering. It will cover algebraic topics intended to preview the course work that students will be exposed to in Actual College Algebra.

**Prerequisites:** Successful completion of Pre-College Algebra or Integrated Geometry

Course Requirements: All tests, quizzes, and assignments.

#### Integrated Geometry (10,11.12) - CRS 310

@1.0

@1.0

The course examines set theory and rules with applications to segment and angle congruence. Students will apply an integrated approach to the study of geometric relationships and properties of geometric figures. It will include methods of proving triangle congruence, rules involving triangles, parallel lines, quadrilaterals, regular polygons, circles, right triangle trigonometry, similarity, transformations, and area.

**Prerequisite**: Successful completion of NYS Algebra I Common Core Course and participation in the Regents Exam.

**Requirements**: All tests, quizzes, and assignments.

#### Geometry Common Core (9,10,11,12) - CRS 313

@1.0

This course follows the NYS Geometry Next Generation Learning Standards Curriculum. Students will apply an integrated approach to the study of geometric relationships and properties of geometric figures. Topics will include congruence and similarity of triangles, transformations including rotations, reflections, translations, glide reflections, and coordinate geometry. The course is meant to lead students to verify conclusions from hypotheses using formal and informal methods of proof.

**Prerequisites**: Successful completion of Algebra I Common Core Course. It is strongly recommended that students have scored a minimum of 65% on the Algebra I Regents exam.

**Course Requirements**: All tests, quizzes, assignments and NYS Geometry Regents Examination must be completed.

#### Geometry Common Core Honors (9,10) - CRS 3132

ՃՃ 1.03 @1.0

@1.0

This course parallels the Geometry Next Generation Learning Standards Curriculum. However, students will cover the material in greater depth, and are exposed to advanced topics and enrichment topics.

**Prerequisites:** Successful completion of Algebra 1 Common Core Course and successful completion of the Algebra Regents exam. It is strongly recommended that students have scored a minimum of 75% on the Algebra I Regents exam.

**Course Requirements**: All tests, quizzes, assignments and NYS Geometry Regents Examination must be completed.

#### Algebra 2 Common Core (10,11,12) - CRS 323

This course will follow the NYS Algebra II Common Core Curriculum Standards. This course will deeply expand upon the algebraic concepts experienced in Algebra I Common Core. Course will build on work with linear, quadratic, and exponential functions, students will extend knowledge and understanding to polynomial, rational and radical functions. Students will expand their abilities to model situations and solve equations over the set of complex numbers. Students will apply their knowledge to solving exponential equations using the property of logarithms.

**Prerequisites**: Successful Completion of Geometry Common Core Course and participation on the Geometry CC Regents exam It is strongly recommended that students have scored a minimum of 65% on the Algebra I Regents exam.

**Requirements**: All tests, quizzes, assignments, and NYS Algebra 2 Regents Exam must be completed.

# Algebra 2 Common Core Honors (10,11,12) - CRS 3232

x<sup>\*</sup>x 1.03 ∅1.0

This course will follow the NYS Algebra II Common Core Curriculum Standards, However, students will cover the material in greater depth, and are exposed to advanced topics and enrichment topics. This course will deeply expand upon the algebraic concepts experienced in Algebra I Common Core. Course will build on work with linear, quadratic, and exponential functions, students will extend knowledge and understanding to polynomial, rational and radical functions. Students will expand their abilities to model situations and solve equations over the set of complex numbers. Students will apply their knowledge to solving exponential equations using the property of logarithms.

**Prerequisites**: Successful Completion of Geometry Common Core Course and successful completion of the Geometry CC Regents exam. It is strongly recommended that students have scored a minimum of 75% on the Algebra I Regents exam.

**Requirements**: All tests, quizzes, assignments, and NYS Algebra 2 Regents Exam must be completed.

#### Pre-Calculus Honors (11,12) – CRS 3322

ՃՃ1.05 @1.0

This course can be taken for 3 Mercy College Credits (at Main only) upon meeting all college requirements. Topics include Relations and Functions, Algebra of Functions, Composite Functions, Polynomial Functions, Exponential and Logarithmic Functions, Trigonometric Functions, Parametric Equations, Polar Equations, Conic Sections, Theory of Equations, Vectors, Matrices, and Determinants, Series and Sequences, Limits. This course uses a graphing calculator and has practical applications of science and math.

**Prerequisites**: Successful completion of Algebra 2 Common Core Honors course and Algebra 2 Regents exam (or by teacher recommendation).

Course Requirements: All tests, quizzes, and assignments.

#### Probability and Statistics (11,12) - CRS 351 🔬 1.05 @ 1.0

This course can be taken for 3 Mercy College credits (OCCC credits at North) upon meeting all college requirements. This course is designed to provide the student with an understanding of the persuasiveness of probability and statistics in today's society and the means to use the concepts and formulas to problem solve. Topics included are expected values, conditional probability, binomial distribution, data analysis (random sampling and sampling distribution), and measures of association. Methods of instruction will range from demonstrations, cooperative learning activities, and individual work to lecture, research, and projects. It is beneficial to anyone planning to go on to higher learning as well as the student who simply wants to problem solve.

**Prerequisites**: Successful completion of the Algebra 1 Common Core course and Regents Exam, Geometry Common Core and Algebra 2 Common Core courses.

**Course Requirements**: All tests, quizzes, and assignments.

#### AP Calculus AB (11,12) - CRS 340

x<sup>±</sup>x 1.05 ∅ 1.0

This course can be taken for 4 Mercy College credits (at Main only) upon meeting all college requirements. Topics studied include elementary functions, differential calculus, applications of the derivative, integral calculus, techniques of integration, the definite integral, and applications of the integral. This course meets for an extra period every other day.

**Prerequisites**: Successful completion of College Algebra and College Trigonometry or Pre-Calculus Honors course (or by teacher recommendation).

**Course Requirements**: All tests, quizzes, and assignments.

# AP Calculus BC (12) (Main Campus Only) - CRS 342

ՃՃ1.05 @ 1.0

This course can be taken for 8 Mercy College credits upon meeting all college requirements. This is an intensive course in the calculus of functions of a single variable. In addition to the topics covered in Calculus AB, the Calculus BC course includes other topics such as infinite series and polar coordinates, parametric equations, and vectors. This course meets for an extra period every other day.

**Prerequisites**: Successful completion of Pre-Calculus Honors and teacher recommendation.

**Course Requirements**: All tests, quizzes, and assignments.

## AP Computer Science Principles (10,11,12) - CRS 362

ՃՃ1.05 @1.0

This course follows the new AP content as an introduction to computers, computing, the internet, logical reasoning, logic strings, and drawing conclusions from trends.

**Prerequisites**: Successful completion of Expl. Comp. Science. **Course Requirements**: All tests, quizzes, and assignments.

#### Financial Literacy (11,12) - CRS 350

@1.0

This course offering is to provide students with a basic understanding of mathematics as it is applied to the post high school world. Topics include, budgeting, Interest Rates as applied to banking, credit cards, mortgages, car loans, monthly payments, managing personal finances, employment and other topics. This course is not intended for students that are pursuing the Common Core three-year sequence track in mathematics.

**Prerequisites**: Successful completion of the Algebra 1 Common Core course and participation in the Regents Exam. **Course Requirements**: All tests, quizzes, and assignments.

Introduction to Statistics (11) – CRS 356

ՃՃ1.05\_*©*1<u>.0</u>

This course can be taken for 3 Marist College credits upon meeting all college requirements. This course is designed to provide the student with an understanding of various statistical techniques using examples from various disciplines. Three distinct areas of statistics will be the focus: producing data, analyzing data, and making inferences from data. Topics include: descriptive statistics; hypothesis testing; confidence intervals; correlation, regression; and, contingency tables and non-parametric methods.

**Prerequisites**: Students must be participants in the Marist ECHS program.

**Course Requirements**: All tests, quizzes, and assignments.

#### Medical Mathematics (10,11,12) (North Campus Only) CRS - 352 Ø 1.0

North Campus- This course prepares students in the LPN program to strengthen the fundamental mathematics skills that are essential to the nursing field. Completion of this course will help students prepare for the TAPE and TEAS exams as well as for the foundational mathematics they will encounter in the nursing field. Topics include: reading measurements, basic operations, ratio/proportion, solving equations, percentages, military time units, rounding and place value, exponents, unit conversions, exponential growth, formula manipulations, budgeting, estimations, data analysis, interpreting graphs, etc.

**Prerequisites**: Successful completion of two math credits one being Geometry Common Core

**Course Requirements**: All tests, quizzes, assignments, and projects must be completed and must be enrolled in the nursing program.

#### Exploring Computer Science (9,10,11,12) - CRS 361 Ø1.0

Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Topics focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. Topics include: programming languages (Scratch and Arduinos), computer hardware/software, networks, data analytics, engineering process, etc.

#### Prerequisites: None

**Course Requirements**: All tests, quizzes, assignments, and projects must be completed.

#### 

College Algebra is for students intending to continue the path toward the study of Calculus. Topics include graphing and describing polynomial, rational, exponential, and logarithmic functions; and solving equations and inequalities involving polynomial, rational, exponential, and logarithmic functions. Conic sections are also a topic covered.

**Prerequisites**: Successful completion of Algebra 2 Common Core course and participation on the Algebra 2 Regents exam or completion of Advanced College Algebra Course.

**Course Requirements**: All tests, quizzes, assignments, and projects must be completed.

#### 

College Trigonometry is for students intending to continue the path toward the study of Calculus. Topics include trigonometric functions, graphing techniques, right triangle applications, trigonometric identities, inverse functions, and oblique triangles.

**Prerequisite**: Successful completion of College Algebra (CRS 3200)

**Course Requirements**: All tests, quizzes, assignments, and projects must be completed.

# Science

Level	Grade 9	Grade 10	Grade 11	Grade 12
AP/College Electives			<ul> <li>College Biology</li> <li>College Chemistry</li> <li>AP Environmental Science</li> <li>College Physics</li> <li>AP Physics C: Mechanics</li> <li>AP Physics C: Electricity &amp; Magnetism</li> <li>College Astronomy</li> <li>Forensic Science</li> <li>Science Research in the High School</li> </ul>	<ul> <li>College Biology</li> <li>College Chemistry</li> <li>AP Environmental Science</li> <li>College Physics</li> <li>AP Physics C: Mechanics</li> <li>AP Physics C: Electricity &amp; Magnetism</li> <li>College Astronomy</li> <li>Forensic Science</li> <li>Science Research in the High School</li> </ul>
Honors	<ul> <li>Living Environment H</li> <li>Earth Science H</li> </ul>	<ul> <li>Living Environment H</li> <li>Chemistry H</li> <li>Earth Science H</li> </ul>	<ul> <li>Chemistry H</li> <li>Earth Science H</li> <li>Anatomy &amp; Physiology</li> </ul>	<ul> <li>Chemistry H</li> <li>Earth Science H</li> <li>Anatomy &amp; Physiology</li> </ul>
Regents	<ul><li>Living Environment</li><li>Earth Science</li></ul>	<ul> <li>Living Environment</li> <li>Earth Science</li> <li>Chemistry</li> <li>Physics</li> </ul>	<ul> <li>Living Environment</li> <li>Earth Science</li> <li>Chemistry</li> <li>Physics</li> </ul>	<ul> <li>Living Environment</li> <li>Earth Science</li> <li>Chemistry</li> <li>Physics</li> </ul>
Electives		<ul> <li>Astronomy &amp; Meteorology</li> <li>Creative Solutions Through Science</li> <li>Environmental Science</li> <li>Field Biology</li> <li>General Chemistry</li> <li>Human Body</li> <li>Independent Study</li> <li>Intro to Forensic Science</li> <li>Network Science Research</li> <li>Science Research in the High School</li> <li>STEAM- A Material Science Study</li> </ul>	<ul> <li>Astronomy &amp; Meteorology</li> <li>Creative Solutions Through Science</li> <li>Environmental Science</li> <li>Field Biology</li> <li>General Chemistry</li> <li>Human Body</li> <li>Independent Study</li> <li>Intro to Forensic Science</li> <li>Network Science Research</li> <li>Science Research in the High School</li> <li>STEAM- A Material Science Study</li> </ul>	<ul> <li>Advanced Field Biology</li> <li>Astronomy &amp; Meteorology</li> <li>Creative Solutions Through Science</li> <li>Environmental Science</li> <li>Field Biology</li> <li>General Chemistry</li> <li>Human Body</li> <li>Independent Study</li> <li>Intro to Forensic Science</li> <li>Network Science Research</li> <li>Network Science</li> <li>Science Research in the</li> <li>High School</li> <li>STEAM- A Material Science Study</li> </ul>

# Science Courses

#### College Biology (11,12) CRS 5033

College Biology is a college course articulated with Syracuse University or SUNY Orange. Course credit is given with a C average or better. The AP Biology curriculum is structured around four Big Ideas: Evolution, Energy Processes, Information and Interactions. These ideas encompass the core principles and theories of all living systems. The curriculum provides a basis for students to develop a strong conceptual understanding in biology and the opportunity to integrate that knowledge through inquiry-based activities and laboratory investigations. Students meet double period/single period/double period cycles every other day.

**Prerequisites**: Successful completion of Honors Biology and Regents Chemistry, and written permission of the instructor. Students should also have completed Physics or plan to take Physics concurrently. Excellent work habits and self-motivating behavior is a must.

**Course Requirements**: Completion of all prescribed laboratory work. The Advanced Placement examination is scheduled for mid-May, after which is the School/College level final exam for all students enrolled in the course.

# Living Environment Honors (9,10,11,12) - CRS 5002

Students will understand and apply scientific concepts, principles and theories relating to the physical setting and living environment and will recognize the historical development of ideas in science. A major goal of this course is for students to understand that we are interconnected with other life forms on this planet. Other major objectives are to understand why and how we are both alike and different from other living things; to understand the inner workings of various animals and humans; and to understand how plants and animals interact with their environment. Focus will also be on the student's ability to explain, analyze and interpret biological processes and phenomena. In addition, students will be introduced to the scientific writing process and be able to produce reports for laboratory investigations. The course is designed to cover topics & components to prepare students for the Biology SAT II. Topics include: Unity and Diversity Among Living Things, Adaptations and Survival of Living Things, Human Physiology, Reproduction and Development, Genetics, Ecology and Evolution.

**Course Meets**: Meets every day with labs on alternating days.

**Prerequisites**: 1. Students must have successfully completed Regents Algebra I and should be enrolled in Geometry. (Some exceptions may apply) 2. Students must have successfully completed Regents Earth Science, or Physical Science (Grade 8) with a teacher/guidance counselor recommendation into the Honors program.

**Course Requirements**: 1. Students must successfully complete the NYS Regents 1200 minute laboratory requirement and demonstrate proficiency in all mandated skills. 2. Regents examination. 3. Maintain an 85 or above in the course. Students will understand and apply scientific concepts, principles and theories relating to the physical setting and living environment and will recognize the historical development of ideas in science. A major goal of this course is for students to understand that we are interconnected with other life forms on this planet. Other major objectives are to understand why and how we are both alike and different from other living things; to understand the inner workings of various animals and humans; and to understand how plants and animals interact with their environment. Focus will also be on the student's ability to explain, analyze and interpret biological processes and phenomena.

**Topics include**: Unity and Diversity Among Living Things, Adaptations and Survival of Living Things, Human Physiology, Reproduction and Development, Genetics, Ecology and Evolution.

**Course Meets**: Class meets every day with double-period labs on alternating days.

**Prerequisites**: Students must have completed Regents Algebra I, or plan to take it concurrently.

**Course Requirements**: Students must successfully complete the NYS Regents 1200 minute laboratory requirement and demonstrate proficiency in all mandated skills. Regents examination.

#### College Chemistry (11, 12) - CRS 5154 🖧 1.05 🖉 1.0

College chemistry is the traditional first year college course in general and inorganic chemistry. This course is articulated with Syracuse University for college credit. This course revisits the topics covered in Regents Chemistry in greater depth, and with a more intensive mathematical treatment. The course prepares the student for higher level college chemistry and biochemistry courses. Upon successful completion of the course curriculum, students will have the option of taking the Advanced Placement Exam in Chemistry.

**Prerequisites:** Students must have successfully completed Regents Living Environment, Regents or Honors Chemistry, Regents Algebra I, and Geometry with grades on the Regents Exams of at least 80%, or permission of the instructor. It is highly recommended, but not required, that students be concurrently enrolled in Pre-Calculus. This is a math intensive course and will require strong math skills for successful completion of the course.

**Course requirements:** Students must successfully complete the course laboratory component, and take a final exam in June in order to earn high school credit. It is recommended that students sit for the AP Exam.

Advanced Chemistry is designed to prepare the serious science student for AP and college science courses. This is a math-based science course that covers all the Regents Physical Setting - Chemistry topics, plus the advanced chemistry topics recommended by the College Board and the American Chemical Society. Students who successfully complete this course will be prepared to take the Regents exam, as well as the SAT II exam in chemistry.

**Prerequisites:** Students must have completed Regents Algebra I, Regents Living Environment, Regents Earth Science, and have taken or concurrently be taking Regents Geometry. Recommended Regents exam scores are 80% or higher, or course grade over 90%. This is a math intensive course and will require strong math skills for successful completion of the course.

**Course requirements**: Students must successfully complete the NYS Regents 1200 minute laboratory requirement and turn in acceptable reports on their work; must complete quarterly projects, and it is strongly recommended that students sit for the June Regents Chemistry exam. Students are strongly encouraged to sit for the June SAT II exam in chemistry.

#### Chemistry Regents (10, 11, 12) - CRS 5141

Topics include phases of matter, energy, atomic structure, the periodic table, bonding, mathematical concepts of chemistry, kinetics and equilibrium, acid-base theories, electrochemistry, thermochemistry, oxidation/reduction reactions, organic chemistry, and nuclear chemistry, in addition to laboratory activities. Students meet daily on an alternating single/double period schedule.

**Prerequisites:** Students must have completed Regents Algebra I, and concurrently enrolled in Regents Geometry. It is strongly recommended that students have scored a minimum of 75% on all Regents Science and Math Regents exams.

**Course requirements:** Students must successfully complete the NYS Regents 1200 minute laboratory requirement and turn in acceptable reports on their work.

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The objective of this course is to provide the student with a broad overview of chemistry that will be meaningful and useful in daily life, and in the decision making of an informed consumer and citizen. Although there is no designated lab period and lab hour requirement as in Regents Chemistry, students will participate in regular laboratory exercises and are expected to become proficient in basic lab skills. Topics are focused on areas of chemistry as they are applied to everyday life. Students meet five periods per week, which include both lecture and lab. Students may not use this course for Regents credit in science. This course is not open to students who have passed Regents Chemistry.

**Prerequisites**: Concurrent enrollment or successful completion of Regents Algebra I, Advanced Algebra or Pre-College Algebra. Students must have successfully completed Regents Living Environment. Students must also have successfully completed Regents Earth Science or Meteorology and Astronomy or be concurrently enrolled in either.

**Course Requirements**: Completion of all assignments and assessments..

APC Mechanics (11, 12) - CRS 5183 🛛 🖧 1.0

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The Advanced Placement Physics C course forms the first part of the college sequence for students majoring in the physical sciences, computer sciences, engineering and pre-med. It includes an in-depth study of mechanics. The sequence is usually paralleled by mathematics courses that include calculus. Methods of calculus are taught and used whenever appropriate in formulating physical principles and in applying them to solve physics problems. The sequence is more intensive and analytic than the Advanced Placement Physics 1 course. Students meet double period/single period/double period on alternating days.

**Prerequisites**: Successful completion of Regents Geometry and Regents Algebra 2. Students are encouraged to complete Regents Living Environment, Regents Chemistry, and College Physics before electing the Advanced Placement C course in Physics. Concurrent registration in Calculus is strongly recommended.

**Course Requirements:** Successful completion of the lab requirement and demonstration of proficiency in all mandated skills as prescribed by the College Board. This is a math intensive course and will require strong math skills for successful completion of the course. This is a semester course that must be taken in sequence with APC Physics: Electricity and Magnetism, during the same school year.

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College Physics is an algebra-based, introductory college-level physics course articulated with Syracuse University. It explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. The course encompasses core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

**Prerequisites**: Successful completion of Regents Geometry and Regents Algebra 2. Students are recommended to complete Regents Living Environment, Regents Chemistry, or Regents Physics before electing this college-level course. Meets double period/single period/double period on alternating days.

**Course Requirements:** Successful completion of the lab requirement, college final examination, and demonstration of proficiency in all mandated skills as prescribed by the syllabus. This is a math intensive course and will require strong math skills for successful completion of the course.

#### Physics Regents (10, 11, 12) - CRS 5161

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This course is a comprehensive survey of mechanics, heat, waves, optics, electricity, the atom, and the nucleus. Algebra is used extensively throughout the course and geometry and trigonometry are used less extensively. The objectives of the Regents physics course extend beyond the minimal comprehension of the basic facts and principles outlined by the New York State Regents Physics Syllabus. The appreciation of scientific method, the ability and willingness to change beliefs and opinions after careful weighing of new evidence, and the development of the habit of critical thinking are the intangible but most important outcomes of the study of this science. These objectives are met by: lecture/demonstration, directed and undirected inquiry laboratory investigations, computer simulation/tutorials and real time computer interfacing. Students meet double period/single period/double period on alternating days.

**Prerequisites**: Open to students who have successfully completed Regents Algebra I and Regents Geometry, or by permission of the instructor.

**Course Requirements:** Students must successfully complete the NYS Regents laboratory requirements and demonstrate proficiency in all mandated skills. Regents Examination. This is a math intensive course and will require strong math skills for successful completion of the course.

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The Advanced Placement Physics C course forms the first part of the college sequence for students majoring in the physical sciences, computer sciences, engineering and pre-med. It includes an in-depth study of electricity and magnetism. The sequence is usually paralleled by mathematics courses that include calculus. Methods of calculus are taught and used whenever appropriate in formulating physical principles and in applying them to solve physics problems. The sequence is more intensive and analytic than the College Physics course. Students meet double period/single period/double period on alternating days.

**Prerequisites**: Successful completion of Regents Geometry and Regents Algebra 2. Students are encouraged to complete Regents Living Environment, Regents Chemistry, and College Physics before electing the Advanced Placement C course in Physics. Concurrent registration in Calculus is strongly recommended.

**Course Requirements**: Successful completion of the lab requirement and demonstration of proficiency in all mandated skills as prescribed by the College Board. This is a math intensive course and will require strong math skills for successful completion of the course. This is a semester course that must be taken in sequence with APC Physics: Mechanics, during the same school year.

#### Earth Science Regents (9, 10, 11, 12) - CRS 5101

This course is a laboratory-centered program involving small group interpretation of data using the scientific method. The areas of study include Geology, Meteorology, Climate Change and Astronomy. Students meet alternately single and double periods for the full school year.

**Prerequisites**: Passing of Junior High School science or Regents Living Environment. Successful completion of Grade 8 Math and Regents Algebra I or concurrent enrollment in Regents Algebra I.

**Course Requirements:** Students in this course must successfully complete the NYS Regents laboratory requirement of 1200 minutes of satisfactory lab reports in order to take the Regents exam. Failure to meet the NYS Lab requirement will result in being unable to sit for the Regents Earth Science exam (barred) and students will receive no credit for the course. The course ends in a Regents Examination and credit in this course can be counted toward the Regents diploma.

Astronomy & Meteorology is a two-semester elective course in the Physical Setting for science that allows the successful student to earn one non-Regents science credit towards graduation. Astronomy & Meteorology students will study topics in Astronomy such as the Solar System, Planet Earth, Comets, Asteroids, Star Formation and Galaxies during the first semester. During the second semester, topics in Meteorology will cover Weather Systems, Climate and Energy Systems. The course is designed using a project-based curriculum that integrates computer technology and weather stations.

**Prerequisites**: Successful completion of Earth Science and Living Environment. **Course Requirements**: Students must successfully complete laboratory work, projects, homework assignments, tests, and quizzes.

#### Honors Anatomy & Physiology (11, 12) - CRS 5052

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Human Anatomy and Physiology is an honors level course designed for both 11th and 12th grade students interested in learning more about the human body and/or may be interested in pursuing careers in the health sciences. The course is designed to introduce and expand the students' knowledge of the structure and function of the human body. This course will study basic biochemistry, cytology, histology, the maintenance of homeostasis. all body systems, and common diseases/disorders. An emphasis will be placed on the diagnosis, treatment, and the effects of various diseases on the human body using real life scenarios. An intense laboratory investigation program is built into the course allowing students to apply and exhibit their conceptual knowledge through hands-on applications. Double lab period on alternate days.

**Prerequisites**: Successful completion of Regents Living Environment and Regents Chemistry courses. Juniors and Seniors meeting these requirements are eligible for enrollment. **Course Requirements**: Students must successfully complete all laboratory activities, chapter tests, case studies, and essays. Participation in class presentations and collaboration with peers is also required.

#### Independent Study in Science Internship (10,11,12) CRS 5221

Students may elect this course to become familiar with the basic skills of scientific inquiry. They will have an opportunity to complete either an empirical research study or a theoretical research study. The empirical research study is a study in which a student defines a problem; develops a research design to pursue the problem; creates, obtains and/or develops instrumentation; generates and analyzes data, and reaches conclusions. The theoretical research study is a study in which a student identifies a problem; undertakes an extensive search of the literature on the topic; does appropriate reading and study, and through creative thought and reasoning, develops his/her ideas and conclusions. Students will be encouraged and assisted in the writing and submission of entries for science competitions, such as the New York State Energy, Research and Development Program, the Siemens-Westinghouse Science Scholarship Program, the Junior Science and Humanities Symposium, etc. Students may also elect this course to do an internship at a business or industry science-related site. Students must complete a minimum of 60 hours at the site per semester. Students must maintain a daily written journal and someone at the site must agree to mentor the student while he/she is there. Students do not have to undertake both a research project and an internship. Successful completion of either the research or the internship will earn one-half credit.

**Prerequisites**: Students must have completed and passed at least two Regents science courses and the corresponding Regents exams. Written permission of the instructor and the Science Department Chair is required.

**Course Requirements:** Students are required to complete a written proposal of study at the beginning of the course, maintain a research notebook during the course, and submit an original, comprehensive research paper at the conclusion of the course.

#### Intro to Forensic Science (10, 11,12) - CRS 5071

Intro to Forensic Science is a full year high school level New York State standards-based course that allows the student to earn one non-regents science credit toward graduation. The course meets for five periods per week. Students participate in regular laboratory exercises and are expected to become proficient in basic lab skills applied to Forensic Science. Intro to Forensic Science challenges students with biochemical studies in Forensic Science. General Chemistry topics are included and focus on areas of chemistry required for understanding Forensic Science techniques. Knowledge, understanding and skills acquired in this course prepare students for the Forensic Science College course.

**Prerequisite**: Successful completion of Regents Living Environment. Concurrent enrollment or successful completion of Algebra I.

**Course Requirements**: Completion of all assignments and assessments.

#### Field Biology (10,11, 12) - CRS 5011

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Field Biology students examine Mid-Hudson Valley wildlife and their roles in the ecosystem. Through visits to different field locations and classroom examinations of living and preserved specimens, students identify plant and animal species that are both typical as well as unique to Newburgh. Students gain further familiarity with wildlife by data analysis, article readings and current events. Since a number of class periods are spent outdoors, students are required to participate in moderate hiking and climbing. Students are also required to maintain a field notebook. Course meets daily for five periods per week.

**Prerequisites**: Concurrent enrollment or successful completion of Regents Algebra I. Students must have successfully completed Regents Living Environment, Regents Earth Science or Astronomy and Meteorology or be concurrently enrolled in Regents Earth Science or Astronomy and Meteorology.

**Course Requirements**: Completion of all assignments and assessments.

#### Forensic Science College (11, 12) - CRS 5081 🔬 1.05 @ 1.0

This course follows a College Level Syllabus and may be used as the 3rd unit of science to meet diploma requirements for a Regents Diploma. This course is articulated with the University at Albany. This course may not be used for Regents credit. It is a college-level course articulated with a local college/university. The course meets for five periods per week. Hands-on laboratory requirements are built into the time framework. Forensic Science is a study of the scientific techniques of crime scene analysis. Students will be exposed to actual cases involving the laboratory study of trace, pattern, conditional and transitional evidence. Students will be exposed to laws governing the admissibility of evidence by the court, searching for evidence by investigators, the accreditation and behaviors expected of expert witnesses. Topics will include, but are not limited to: Toxicology, Firearms and Ballistic, Arson, Serology, Physiology of Death, Hair, Fingerprinting and DNA Fingerprinting. Students will be expected to attend a field experience at a local Crime Lab and are expected to complete two assessment projects. Grade is based on the successful completion of the lab requirement and all assessments.

**Prerequisite**: Successful completion of Regents Living Environment and either General Chemistry, Regents Chemistry, or AP/Honors Chemistry. Successful completion of Regents Algebra I and Geometry are also required.

#### Environmental Science (10,11, 12) - CRS 5061

Environmental Science is an ecology-based course where students study the natural environment, societal issues, and the effects of society's behavior on the environment. The goals of this course will be met through lecture, individual and group research, and hands-on activities in the form of mini-labs. Meets five periods per week and satisfies the requirement for the third science credit.

**Prerequisites**: Successful completion of Regents Living Environment with passing grade for the Living Environment Regents Exam. Regents Algebra I recommended.

**Course Requirements:** . Completion of all assignments and assessments.

#### AP Environmental Science (11, 12) - CRS 5063 🔬 1.05 🖉 1.0

This course is articulated with SUNY Orange. College credit pending review by college. AP Environmental Science is a college course that surveys Earth Systems and resources, the Living World, Population, Land and Water Use, Energy Resource Consumption, Pollution and Global Change. Lectures from guest speakers, off site visits and research projects are part of this course design.

**Prerequisites**: Students should have completed two years of high school laboratory science—one year of life science and one year of physical science (a year of Living Environment and a year of Regents Chemistry, Regents Physics or Regents Earth Science). Due to the quantitative analysis required in the course, students should also have taken at least one year of Algebra.

**Course Requirements:** Lab work and course assessments are to be completed.

#### Creative Solutions Through Science & Technology (10,11,12) - CRS 5091

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Creative Solutions through Science & Technology provides an introduction to various components within the Science, Technology, Engineering, and Mathematics curriculum. Classes will focus on the integration of real world, project-based activities involving: hydroponics, composting and water filtration. Additional activities will include solar technologies, alternative energies, the building of: bridges, earthquake proof structures, solar vehicles, and robotic arms and hands. Students who successfully complete this course will earn 1.0 credit in Science, Math or Technology.

**Prerequisites**: Concurrent enrollment or successful completion of Living Environment or Regents Earth Science.

**Course Requirements**: Completion of all assignments and assessments.

#### Advanced Field Biology (11,12) - CRS 5021

This course is designed to familiarize students with topics and careers in field biology. Topics may include ecology, entomology, herpetology, botany, population biology, taxonomy, physiology, wildlife and fisheries biology, microbiology and others. Field biologists are employed by county, state, and federal agencies as wildlife biologists, fisheries biologists, entomologists, range managers, pollution control technicians, environmental health officers. environmental education specialists, toxicologists, soil scientists, naturalists, and many others. Many of these types of careers involve research and some may be involved in the regulation and enforcement of environmental laws.

**Prerequisite**: Successfully completed the Regents Living Environment course and Regent exam.

**Course Requirements**: Since a number of class periods are spent outdoors, students must be able to participate in moderate hiking and climbing. These activities will occur during mandatory full day field trips to Black Rock Forest Preserve to complete laboratory exercises in the field.

#### Human Body (10,11, 12) - CRS 5041

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Students will learn about the cells, tissues, and organs that make up the human body. They will learn to identify all of the parts of the human body and their functions. Knowledge about the human body will be applied to practical applications as seen in case studies, health articles, multimedia resources. Hands-on laboratory activities will provide an opportunity for students to visualize and understand the processes that occur within their bodies allowing them to stay alive. Students will leave this course having gained an understanding of the structures and functions of the human body, illness, and appropriate treatments which can be applied to their future health and medical well being and experiences.

**Prerequisite**: Successful completion of both Living Environment Course and Living Environment Regent Exam are required.

**Course Requirements:** Students must successfully complete all laboratory activities, chapter tests, vocabulary quizzes, homework, and case studies. Participation in class presentations and collaboration with peers is also required.

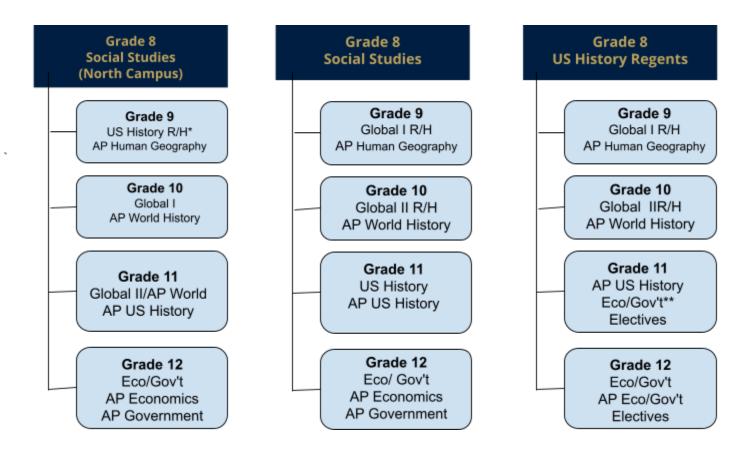
#### STEAM - A Materials Science Study (10,11, 12) – CRS 5171 *I* ≈ 1.0

Students will explore the chemistry and physics of everyday materials such as metals, ceramics/glass, candy, paper, and more! Students will perform inquiry and complete hands-on activities to more deeply explore the materials that comprise their world. Focus will be placed on skills such as annotation with purpose, scientific writing, interpreting, organizing and representing data in multiple ways, and using technology to further their research and self-assess their progress.

**Prerequisites**: Concurrent enrollment or successful completion of Regents Algebra I. Students must have successfully completed Regents Living Environment or Regents Earth Science or be concurrently enrolled in either.

**Course Requirements**: Completion of all assignments and assessments.

# Social Studies



### \*NFA North Only

\*\*Early Graduation Path (please speak with your school counselor for more information)

#### Electives

Psychology Introduction to Criminal Justice Sociology History of Sports Beginning Debate Constitutional Law Introduction to African American History U.S. Government & Politics with Economics Facing History & Ourselves: Crimes against Humanity History of Newburgh Facing History Civil Rights

### Advanced Placement Courses

Macroeconomics with Government Government & Politics: U.S. Psychology Macroeconomics World History Human Geography U.S. History and Government

### New York State Seal of Civic Readiness

This is a new Seal that will be available for students beginning in the 2022-23 school year. For more information, see page 11 (Special Diploma Endorsements)

## **Social Studies Courses**

#### Global History and Geography I Honors -CRS 4012

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The Global History and Geography core curriculum is a two-year program (Grades 9 and 10) based on the five practices of the New York State Social Studies Framework. It is designed around eight historical units and focuses on common themes that occur across place and time. The curriculum provides students with the opportunity to explore the developments of political systems around the world and to analyze the roles of significant individuals and groups during important periods of time and key turning points in global history. The Honors Course is a rigorous course that requires analysis and evaluation of historical documents. Honors classes generally incorporate more reading, writing and discussion and at a higher level; use more challenging instructional materials; and take more challenging assessments throughout the year.

**Prerequisites**: Successful completion of Grade 8 studies, USH and/or recommendation by the Grade 8 social studies teacher **Course Requirements**: per course syllabus

#### Global History and Geography I Regents - CRS 4011 Ø1.0

The Global History and Geography core curriculum is a two-year program (Grades 9 and 10) based on the five practices of the New York State Social Studies Framework. It is designed around eight historical units and focuses on common themes that occur across place and time. This curriculum provides students with the opportunity to explore the development of political systems around the world and to analyze the roles of significant individuals and groups during important periods of time and key turning points in global history.

#### Prerequisites: None

Course Requirements: per course syllabus

#### AP Human Geography - CRS 4013

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The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. This course is designed for freshmen and supplants Global History & Geography I Honors.

**Prerequisites**: successful completion of grade 7 & 8 Social Studies, teacher/counselor/administrator recommendation

#### Global History and Geography I/II Honors ☎1.03 @ 2.0 CRS 4012/4022 (North Campus only)

A block scheduled one year course that covers both Global I and II curriculum; Significant emphasis is placed on investigating and explaining in-depth document-based questions in Global History. Designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills, ability to think, analyze and discuss in the abstract and deal with complex concepts. The course is based on the six practices of the New York State Social Studies Framework. Designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills, ability to think, analyze and discuss in the abstract and deal with complex concepts. Students should also possess a high level of Social Studies vocabulary and be able to work independently in the library. The final evaluation is the Regents exam.

**Prerequisites:** teacher/ counselor/ administrator recommendation

Course Requirements: per course syllabus

#### AP World History - CRS 4023

A continuation of Global History and Geography I incorporating material from the various Social Studies disciplines in understanding themes and concepts. Significant emphasis is placed on investigating and explaining in-depth document-based questions in Global History. Designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills, ability to think, analyze and discuss in the abstract and deal with complex concepts. Students should also possess a high level of Social Studies vocabulary and be able to work independently in the library. Students will study 6 in-depth themes with a chronological examination of the major movements, ideas, and events in World History. Students will complete simulations, give oral presentations, explore critical analysis of primary documents and conduct significant historical research. Thesis writing is emphasized. Students will take the Global History and Geography Regents, a final course evaluation and/or the AP Examination in May.

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**Prerequisites**: Successful completion of Global History I with recommendation from teacher or departmental approval. Pre-AP Summer Assignment.

Course Requirements: per course syllabus

### Global History and Geography II Honors - CRS 4022

A continuation of Global History and Geography I incorporating material from the various Social Studies disciplines in understanding themes and concepts. The course is based on the six practices of the New York State Social Studies Framework. Significant emphasis is placed on investigating and explaining in-depth document-based questions in Global History. Designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills, ability to think, analyze and discuss in the abstract and deal with complex concepts. Students should also possess a high level of Social Studies vocabulary and be able to work independently in the library. The final evaluation is the Regents exam.

**Prerequisites**: Successful completion of Global History and Geography I with at least an 85 average and a recommendation from the Global History I teacher.

**Course Requirements:** per course syllabus

#### Global History and Geography II Regents - CRS 4021 🛛 🖉 1.0

A continuation of Global History I incorporating learning from the various Social Studies disciplines in understanding various cultures and value systems. The course is based on the five practices of the New York State Social Studies Framework. Emphasis is placed on investigating cultural development and social change in Global History. Similar to Honors in requirements, with greater emphasis on the use of study aids. The Regents examination is the final evaluation.

**Prerequisites**: Successful completion of Global History and Geography I.

Course Requirements: per course syllabus

AP U.S. History - CRS 4113

#### **≴**≵1.05 ∅1.0

This is a full year college level course. The course will be divided into two semesters. The fall semester will cover Colonial History through the Civil War with a school evaluation in January. The spring semester will cover Reconstruction through the present with a research assignment in May, serving as the second semester evaluation. All students will take the June United States History & Government Regents as the final course evaluation. The course traces the development of American social, political, cultural and economic patterns, as well as the history and formulation of foreign policy. The course is designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills and in the ability to think and discuss in the abstract when studying complex issues and concepts. Students take the Advanced Placement American History Exam in May.

**Prerequisites**: Successful completion of Global History I & II, teacher recommendation, department approval **Course Requirements:** per course syllabus

#### United States History & Government Honors ☆ 1.03 ∅ 1.0 CRS 4116

This is a full year Honors level course which traces the development of American social, political, cultural and economic patterns, as well as, the history and formulation of foreign policy. Just like the New York State Core Curriculum, this course is designed to help the student focus on the key facts, themes, and concepts tested on the Regents Examination. This course will meet both the New York State learning standards, as well as, the national Standards for Social Studies. The course is based on the six practices of the New York State Social Studies Framework.

**Prerequisites**: Successful completion of Global History and Geography Honors

Course Requirements: per course syllabus

#### United States History & Government Regents - CRS 4111 @ 1.0

This is a course in the history of the United States. The course is based on the five practices of the New York State Social Studies Framework. The course will include a chronological survey of United States history in general, but the emphasis will be on the United States as a developing and as a fully developed industrial nation. Constitutional and legal issues will be explored in depth, as well as the problems of a dynamic and industrial society in an increasingly complex and technologically-oriented world. The Regents Examination is the final evaluation.

ՃՃ1.05 ₡0.5

Course Requirements: per course syllabus

#### AP Macroeconomics - CRS 4203

This is a semester, college level course consistent with a school final exam. This course examines the basic concepts and principles of economics, the major elements of economic systems and the roles of various components of those systems, including consumer, business, labor, agriculture and government. The major focus is on the economy of the United States, but attention will be given to the world economy as a whole and to other economic systems. There will be an emphasis on economic decision-making at all levels throughout the course. Designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills, ability to think and discuss in the abstract when studying complex issues and concepts. Students take the Advanced Placement exam in May.

**Prerequisites**: Successful completion of U. S. History & Government and/or Participation in Government - College; must be in 12th grade.

Course Requirements: per course syllabus

#### AP Macroeconomics with Government - CRS 4223

#### **☆☆ 1.05** Ø 1.0

The AP Macroeconomics course provides students with a thorough understanding of the principles of economics and how economists use those principles to examine aggregate economic behavior. Students learn how the measures of economic performance, such as gross domestic product (GDP), inflation, and unemployment are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. The course recognizes the global nature of economics and provides ample opportunities to examine the impact of international trade and finance on national economies. Various economic schools of thought are introduced as students consider solutions to economic problems. Students will study fiscal and monetary policies and international trade/finance. As part of the government section of this course, students will learn about the principles of American government political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government civil rights and civil liberties. At the conclusion of this course, students may be granted college credit or placement for this course based upon their performance in the nationally administered exam, which is required of all students. Students take the Advanced Placement exam in May.

**Prerequisites**: Successful completion of U. S. History & Government with an 85% or better on the Regents and/or teacher recommendation. Students must be in 12th grade. **Course Requirements**: per course syllabus

#### **Economics - CRS 4201**

@ 0.5

This course deals with the basic concepts and principles of economics, the major elements of economic systems and the roles of various components of those systems, including the consumer, business, labor, agriculture and government. The major focus is on the economy of the United States, but attention will be given to the world economy as a whole and to other economic systems. There will be an emphasis on economic decision-making at all levels throughout the course. The course is based on the six practices of the New York State Social Studies Framework.

**Prerequisites**: Completion of the required Social Studies courses.

**Course Requirements**: per course syllabus

#### AP Government and Politics: U.S. - CRS 4303

This is a single semester, college level course. The course will emphasize the interaction between citizens and government at all levels, and is designed to give students a critical perspective on politics and government in the United States. The course involves both the study of general concepts used to interpret American politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. Topics include: constitutional underpinnings of American government; political beliefs and

behaviors; political parties and interest groups; institutions and policy processes of national government; and civil rights and liberties. Designed for students demonstrating marked proficiency in Social Studies in regard to reading and writing skills and an ability to think and discuss in the abstract when studying complex issues and concepts. Students take the Advanced Placement exam in May.

**Prerequisites**: Successful completion of United States History & Government and/or Economics–College; must be in Grade 12 **Course Requirements**: per course syllabus

## AP U.S. Govt & Politics w/ Economics CRS 4333 331.05

This full year course combines the one-semester course in Economics with a one semester course in Advanced Placement American Government & Politics. This college-level course is designed to give students a critical perspective on government and politics in the United States. It involves both the study of general concepts used to interpret American politics and the analysis of specific case studies and current events. Students will study constitutional underpinnings of American Government, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government, civil rights and civil liberties. As part of the economics component, students will study basic economic problems facing consumers in America. This includes consumer issues and economic literacy, economic decision making for individuals and businesses, long term investment and the history of economic policy and impacts (individual, local, state, nation, world). Students will study themes and concepts critical analysis. Significant research and thesis writing emphasized. Students may be granted college credit or placement for this course based upon their performance in the nationally administered exam, which is required of all students. Students take the Advanced Placement exam in May. Prerequisites: American History 85% or better on the U.S. History & Government Regents and/or teacher recommendation, departmental approval, senior year status. Course Requirements: per course syllabus

#### Government Honors: Current Topics CRS 4302 ☎ 1.03 Ø 0.5

This course of study will focus on current social, political and economic issues that are both foreign and domestic concerns and interests of American citizens today. This honors level program meets the New York State Department of Education's commencement level standards for Grade 12 Participation in Government. The course is based on the five practices of the New York State Social Studies Framework. Students are required to research the historic background, identify essential questions leading to controversy or concern, then lead fellow classmates through thought provoking dialogue regarding their well formulated and informed position on the issues. Students will present their findings and position in several genres including position papers, speeches, debates, editorials, powerpoint or video presentations. A final cumulative examination will consist of

several essay responses to essential questions developed from the current issues discussed in the semester. Students taking this course will also complete ten hours of community service.

**Prerequisites**: Students must be in the 12th grade. Students should have successfully passed Global History and Geography, United States History & Government and passed the ELA Regents. **Course Requirements**: per course syllabus

#### Participation in Government Regents - CRS 4301

A required core subject that will emphasize the interaction between citizens and government at all levels: local, state and federal. The course will encourage students to understand and participate in the democratic process. Students taking this course will also complete ten hours of community service. The course is based on the six practices of the New York State Social Studies Framework.

**Prerequisites**: Completion of the required Social Studies courses and senior year status.

Course Requirements: per course syllabus

#### Psychology - CRS 4401

@0.5

@ 0.5

This course will acquaint students with the fundamental areas of psychology such as the biological and sociological bases of behavior, personality and social development, motivation, learning perception, memory and thinking and cognitive development. The primary goal of the course is to provide students with an understanding of the scientific basis of psychology in order to increase their awareness of how this knowledge can be applied to understanding their own everyday environment.

**Prerequisites**: Completion of the required Social Studies courses; open to sophomores, juniors, seniors

Course Requirements: per course syllabus

#### AP Psychology - CRS 4403

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This is a college level course which traces the emergence of scientific psychology in the nineteenth century from its roots in philosophy and physiology and covers the development of the major "schools" of psychology. The historical introduction helps students gain an understanding of the principal twentieth century approaches to psychology: behavioral, biological, cognitive, humanistic, and psychodynamic. Students will learn how these approaches differentially guide research and practice in psychology. Additionally, the scientific nature of psychology is made clear through coverage of the methods psychologists use to answer behavioral to psychodynamic questions. Students take the Advanced Placement exam in May.

**Prerequisites:** This course is open to Juniors and Seniors. Course Requirements: per course syllabus

#### Sociology - CRS 4001

This course is designed to teach principles and concepts of sociology. While the substantive emphasis of the course is on American Society, attention is also given to the study of human societies in general, comparative analysis with other countries and issues related to the development of worldwide social systems. In addition, the major topics are: culture, interaction and social structure, deviance and control, stratification and power, ethnic relations, and social institutions.

**Prerequisites**: Completion of the required Social Studies courses. Although not required, it is recommended this course be taken concurrently or after the student has taken Psychology.

**Course Requirements**: per course syllabus

#### Beginning Debate - CRS 4511

@1.0

@ 0.5

Main Campus - Debate is formal argumentation. Students enrolled in Beginning Debate will develop the skills necessary to compete nationally in interscholastic debate. While it is not necessary to join the Debate Team in order to take a debate class, it is strongly encouraged. All students can benefit from the skills of debate: public speaking, critical thinking, researching, organizing, writing, reading and listening. Students will debate a range of topics, including, but not limited to, the issues being debated nationally in both Policy and Lincoln-Douglas debate

Prerequisites: None

#### Advanced Debate I - CRS 4521

@1.0

Main Campus - This course is a continuation of Beginning Debate. Students will extend their development of the skills of debate: public speaking, critical thinking, researching, organizing, writing, reading and listening. Students will work collaboratively to develop arguments and improve their own abilities. **Prerequisites**: Beginning Debate.

#### Advanced Debate II - CRS 4531

@1.0

Main Campus - This course is a continuation of Advanced Debate I. Students will extend their development of the skills of debate: public speaking, critical thinking, researching, organizing, writing, reading and listening. Since the debate classes are often taught with various levels in the same classroom at the same time, students in Advanced Debate II are expected to assume leadership responsibility and to model necessary skills for less experienced students, in addition to advancing their own understanding of the topics discussed, and of debate theory.

Prerequisites: Beginning Debate, Advanced Debate I.

#### Advanced Debate III - CRS 4541

@1.0

Main Campus - This course is a continuation of Advanced Debate II. Students will extend their development of the skills of debate: public speaking, critical thinking, researching, organizing, writing, reading and listening. Since the debate classes are often taught with various levels in the same classroom at the same time, students in Advanced Debate III are expected to assume leadership responsibility and to model necessary skills for less experienced students, in addition to advancing their own understanding of the topics discussed, and of debate theory. **Prerequisites**: Beginning Debate, Advanced Debate I, Advanced Debate II

## Facing History and Ourselves: Crimes of Humanity <a>O.5</a> CRS 4561

The Crimes of Humanity course is an examination of racism, prejudice and anti-Semitism in order to promote the development of a more informed global citizenry. By studying examples of genocide students make the essential connection between history and the moral choices they confront in their own lives.

#### History of Newburgh CRS 4571

@0.5

This course will explore the history of the City of Newburgh and the Town of Newburgh. The city and surrounding towns have long been considered as a reflection of America. The amendment considerations during police investigations, arrest in pre-trial procedures and while moving through the justice system. **North Campus Only** 

**Prerequisite**: Successful completion of 1 HS Social Studies course.

\*Linked with CRS 4501. Offered to Juniors and Seniors. Course offered in the Spring

#### Introduction to African American History CRS 4501 @0.5

Introduction to African American History is a half year survey course that covers topics from origins on the continent of Africa through present day socio-economic conditions in the United States. Students will take a critical look at American history through the lens of the African American experience. Discussions include: identity, the concept of race as a construct, the invaluable contributions of African Americans to national development, resistance movements, and relevant contemporary issues and statistics. **North Campus Only Prerequisite:** Successful completion of 1 HS Social Studies course.

\* Linked with CRS 4571. Offered to Juniors and Seniors. Course offered in the Fall

Constitutional Law	CRS 4131	@ 0.5
Students will be examining	g constitutional	law cases from
multiple perspectives. Cases	will include thos	e of the past and
the present. Students will stu	dy the historical	and philosophical
foundations of America's fou	nding principles	from a range of
diverse voices. The curriculu	ım guides stude	ents to think like
constitutional lawyers cultivat	ing the skills nee	cessary to analyze
all sides of constitutional que	stions. Students	will examine how
the concept of citizenship ha	s been expande	d throughout the
vears.		

**Prerequisite**: Successful completion of 1 high school Social Studies Course.

#### Facing History and Ourselves: Civil Rights CRS 4551 @0.5

This course is an examination of civil rights in the United States. Students will explore key turning points in American History and how these historical events have shaped American Culture. Students will explore the complexities of history and make connections to current events, reflect on the choices they confront today and consider how they can make a difference.

### History of Sports CRS 4581 ∅0.5

Students will have the opportunity to examine the development throughout history. The course will concentrate on how sports have grown to play such a large role in the political, economic and social aspects of our everyday lives.

#### Introduction to Criminal Justice CRS 4591

@0.5

Introduction to Criminal Justice is the study of agencies and processes involved in the United States criminal justice system, including the legislature, the courts and corrections and analysis of the roles and problems of the system in a democratic society with an emphasis on 4th, 5th and 6th amendments. Differentiating between civil and criminal law, students will consider several real cases in US History as well as relevant documentaries.

# Fine and Performing Arts

Music & Performing Arts courses which satisfy the NYS Graduation Requirement for 1 Arts Credit, in part or in full, with no prerequisite or prior music experience necessary:

Rock History - CRS 6411 @ 0.5 Beginning Piano - CRS 6321 @ 0.5 Guitar - CRS 6301 @ 0.5 World Music Drumming - CRS 6451 @ 0.5 Performing Arts Lab (PAL) - CRS 6741 @ 1.0 Acting I - CRS 6711 @ 0.5 Explorations in Music - CRS 6401 @ 0.5

Music Courses	Auditioned Performing Ensembles	Courses to Consider for Those Interested in Post-Secondary Arts Majors
*Explorations in Music *Beginning Piano *Intermediate Piano *Rock History *Guitar *Concert Band *Wind Ensemble *Orchestra *Chorus *A Cappella Chorus *Chaminade Chorus *Chaminade Chorus *Tenor/Bass Chorus *Madrigals *World Music Drumming *Music Theory *AP Music Theory *AP Music Theory *AP Music Theory *AP Music Theory *AP forming Arts Laboratory *Technical Theater *Acting 1 *Acting 2 *Acting 3 #Dance 1 #Dance 2 #Dance 3 #Advanced Dance	Concert Band Wind Ensemble Orchestra Chorus Treble Chorus A Cappella Chaminade Tenor/Bass Chorus Madrigals Advanced Dance Extracurricular Ensembles Jazz Ensemble Percussion Ensemble Keyboard Ensemble	Future Music Majors:Any Performing EnsembleMusic TheoryAP Music TheoryBeginning PianoIntermediate PianoFuture Acting/Theater Majors:Technical TheaterActing CoursesFuture Dance Majors:Dance 1, 2, 3 & Advanced DanceCourses

\*Satisfies (full or in part) NYS Graduation Requirement for 1 Arts Credit # Physical Education credit can be earned using corresponding PE course code.

## **Music Courses**

#### **Music Theory - CRS 6601**

@1.0 Designed for students with previous music experience who are interested in developing songwriting skills. Explores traditional,

electronic & progressive methods for composing.

Prerequisite: Participation in a performing group or permission of the instructor.

Grades: 9 – 12 (Main Campus)

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### AP Music Theory - CRS 6602

#### גלא 1.05 @ 1.0

Designed as a continuation of the skills gained in Music Theory with an emphasis on the study of figured bass and Schenkerian analysis. Musicianship skills including dictation and other listening skills, sight singing, and keyboard harmony are an integral part of the class. The course also prepares students to take the AP Music Theory exam.

Prerequisite: Successful completion of Music Theory or instructor permission.

Grades: 10-12 (Main Campus)

Satisfies NYS Graduation Requirement for 1 Arts Credit and completed prerequisite

#### **Explorations in Music - CRS 6401**

Ø 0.5

@ 0.5

Develops students' understanding of music as it relates to itself and human culture. Offers students the opportunity to work individually and in groups to complete projects tailored to their abilities.

#### Prerequisite: None

Grades: 9-12 (Main & North Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

#### **Rock History - CRS 6411**

Offers a survey of the music, musicians, and historic events that contributed to the development of American Popular Music since the 1840's.

#### Prerequisite: None

Grades: 9 - 12 (Main & North Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit.

#### **Beginning Piano-CRS 6321**

@0.5

Fundamentals of playing keyboard instruments, reading music, chord construction, and simple improvisation will be presented. Some creative experiences with electronic music devices will be included.

Prerequisite: No previous musical experience is needed. However, students should have a keyboard instrument available at home for individual practice.

Grades: 9 – 12 (Main & North Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

#### Intermediate Piano -CRS 6341

Continuation of the contents of "Beginning Piano" Emphasis on ensemble playing and keyboard/computer technology, and solo literature

Prerequisite: Successful completion of "Beginning Piano" or permission of the instructor. Students should have a keyboard instrument available at home for individual practice.

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

#### **Guitar - CRS 6301**

@0.5

∅ 1.0/0.5

@ 0.5

Fundamentals of reading music, chord construction, and familiar chord rhythmic accompaniments, various strumming techniques, and blues improvisation will be included

Prerequisites: No previous music experience is needed. However, the student must have a guitar for individual practice. Grades: 9 – 12 (Main & North Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

#### **Orchestra -CRS 6101/6102**

Continuation of individual skill development needed to perform orchestral music of all periods Opportunities for solos and smaller ensemble performance are provided at the local and state levels. Performance at concerts/events and attendance at weekly lesson groups (CRS 6511) is basic to meeting this criteria.

**Prerequisites**: Previous orchestral experience and an individual audition with the instrumental director to demonstrate performance skill levels.

Grades: 9-12 (Main & North Campus)

Satisfies (full or in part) NYS Graduation Requirement for 1 Arts Credit

#### Concert Band - CRS 6100

@1.0

Continuation of individual skill development needed to perform band music of all periods. Opportunities for solo and smaller ensemble performance are provided at the local and state levels. Performance at concerts/events including home football games and attendance at weekly lesson groups (CRS 6511) is basic to meeting these criteria.

Prerequisites: Previous band ensemble experience and an individual audition with the band director to demonstrate performance skill levels.

Grades: 9-12 (Main & North Campus)

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### Wind Ensemble - CRS 6003/6002

#### ≴∄1.03 ∅0.5/1.0

Continuation of individual skill development in band performance at a superior level. This select ensemble will perform Level 5 and Level 6 music as found in the current NYSSMA Manual. This ensemble offers the opportunity to perform more difficult literature. Performance at concerts/events, home football games and attendance at weekly lesson groups (CR 6511) is basic to meeting this criteria. Prerequisites: Previous band experience and an audition will be required for admission into this select ensemble, and membership in a related major performing organization. (Courses 6100, 6101, 6201, 6211, 6221).

Grades: 10-12 (Main Campus)

Satisfies (full or in part) NYS Graduation Requirement for 1 Arts Credit

#### Instrumental/Vocal Lesson - CRS 6511/6521

This weekly scheduled lesson with the ensemble director is to support students' skill development and participation within the performance ensemble. A rotating schedule is developed and distributed at the beginning of each year and make up options are offered to reduce instructional conflicts.

**Prerequisites**: Enrollment within a major performing ensemble.

**Grades**: 9 – 12 (Main & North Campus) Credit earned via ensemble enrollment.

#### A Cappella Chorus - CRS 6201

@0.5

Voice production techniques and music reading skill development are emphasized within this course. Opportunities for solo and smaller ensemble performance will be provided at the local and state levels. Performance at concerts/events and attendance at weekly lesson groups (CR 6521) is basic to meeting this criteria.

**Prerequisites**: Previous choral experience and individual audition with the choral director to demonstrate vocal skills and music reading ability.

Grades: 9 – 12 (Main Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

#### World Music Drumming -CRS 6451

@0.5

This course offers an immersive exploration of diverse percussion traditions from West Africa, the Caribbean, Brazil, and the Middle East. Students will engage in hands-on experiences, discovering the rich cultural, historical, and social contexts that shape these vibrant musical traditions. No previous music experience is required!

#### Prerequisites: None

Grades: 9-12 (Main Campus)

#### Madrigals - CRS 6202

#### ¥1.03 @ 1.0

Voice production techniques and music reading skill development through representative SATB choral literature are emphasized within this course. This select ensemble will perform Level 5 and Level 6 music as found in the current NYSSMA Manual. This ensemble offers the opportunity to perform more difficult literature. This small ensemble offers scholars the opportunity to perform in a variety of school, district and community venues. Class participation and attendance at all concerts/events scheduled for the ensemble is expected.

**Prerequisites**: Individual audition with the instructor and membership in a related major performing organization. (Courses 6100, 6101, 6201, 6211, 6221)

Grades: 10-12 (Main Campus)

Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Chaminade Treble Chorus - CRS 6211

Ø 0.5

@1.0

Voice production techniques and music reading skill development through representative SSA choral literature are emphasized within this course. Special emphasis on ensemble blend and balance with opportunities for small group performance. Performance at concerts/events and attendance at weekly lesson groups (CR 6521) is basic to meeting criteria.

**Prerequisites**: Individual audition with the choral director to classify voice.

Grades: 9-12 (Main Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

#### Mixed Chorus - CRS 6231

Individual skill development to perform choral music of all periods. Opportunities for solo and smaller ensemble performance are provided at the local and state levels. Performance at concerts/events and attendance at weekly

lesson groups (CRS 6521) is basic to meeting this criteria. Prerequisites: Individual audition with the choral director to demonstrate performance skill levels.

Grades: 9-12 (North Campus)

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### Robert D. Williams Tenor/Bass Chorus – CRS 6221 Ø0.5

Voice production techniques and music reading skill development through representative TBB choral literature are emphasized within this course. Special emphasis on ensemble blend and balance with opportunities for small group performance. Performance at concerts/events and attendance at weekly lesson groups (CR 6521) is basic to meeting these criteria.

**Prerequisites**: Individual audition with the choral director for voice classification.

Grades: 9-12 (Main Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

# Performing Arts Courses

#### Performing Arts Lab (PAL) - CRS 6741

@1.0

Course provides units of study exploring the utilization of music, dance, theater, stagecraft and music technology within the performing arts. There will be a final project utilizing all aspects of the Performing Arts Lab. Course meets requirements for NYS Regents Mandate for Graduation

Prerequisite: None

Grades: 9-12 (Main Campus)

#### Satisfies NYS Graduation Requirement for 1 Arts Credit

**Technical Theatre - CRS 6701** 

@1.0

Introduction to the art of Stagecraft. Skill development, job exploration, and production experience, will provide students with experience in the behind-the-scenes world of the theatre. Units include basics of stage safety, theatrical design, construction, roles and responsibilities of set, lighting, sound, costume designers and practitioners. Students will make connections between the performing arts, academics, and the culture of their community through cross-curricular instruction and practical application. Instruction supported by guest artists and field experience. Students will utilize and apply the content acquired in class in at least one performance.

**Prerequisite** - PAL CRS 6741 or permission of instructor. **Grades**: 10 – 12 (Main Campus)

## Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Dance 2 - CRS 9500

@0.5

Detailed work in technique, choreography, and performance. Scholars develop the skills necessary for basic through intermediate levels of dance.

**Prerequisites**: Successful completion of Dance 1 or instructor permission.

Grades: 10-12 (Main Campus)

(Course also available under PE Department Course section) Satisfies in part NYS Graduation Requirement towards PE Credit

#### Dance 3 - CRS 9501

@0.5

Build on skills learned in Dance 2. Scholars develop skills for intermediate through advanced levels of dance.

**Prerequisites**: Successful completion of Dance 2 or instructor permission.

Grades: 11-12 (Main Campus)

(Course also available under PE Department Course section) Satisfies in part NYS Graduation Requirement towards PE Credit

#### Advanced Dance - CRS 9502

Dance technique and performance with advanced dance training. Individual auditions are required to enroll in this course. Course concentration is on a variety of dance styles, jazz, ballet, modern and other.

Prerequisites: Audition; instructor permission

Grades: 11-12 (Main Campus)

(Course also available under PE Department Course section) Satisfies in part NYS Graduation Requirement towards PE Credit

Dance 1	- CRS 9503	Ø 0.5

This course is open to students of all dance levels to improve their technique, choreography, and performance skills. Participation in dance technique classes and successful completion of choreography/performance assignments is required.

Prerequisite: None

Grades: 9-12 (Main Campus)

(Course also available under PE Department Course section) Satisfies in part NYS Graduation Requirement towards PE Credit

#### Acting I - CRS 6711

@0.5

@1.0

@ 1.0

Introduction to and practice of appropriate behavior for an actor in rehearsal and performance. Basic acting course is designed for students to take the first steps toward acting on a serious basis. Exercises, improvisations and scenes encountered by the beginning actor

#### Prerequisites: None

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Grades: 9 – 12 (Main Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit

cting II - CRS 6721	Ø 0.5

Advanced acting and beginning directing and playwriting experiences. Exercises in concentration, sense and emotional memory will require that only the most serious actors take this course

**Prerequisites**: Successful completion of Acting I or instructor permission.

Grades: 10 – 12 (Main Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Acting III - CRS 6731

Actors move to the most advanced level of acting Preparation for college and professional auditions. **Prerequisites**: Acting II

Grades: 11-12 (Main Campus)

Satisfies in part NYS Graduation Requirement for 1 Arts Credit if taken as an Arts course and prerequisite completed

#### Jazz Ensemble

This extra-curricular performing group explores the various styles of jazz music. Scholars are given the opportunity to also develop improvisation skills.

Performance at all concerts/events scheduled for the ensemble, in addition to class participation expectations. **Prerequisites**: Individual audition and/or membership in a related major performing organization. (Courses 6100, 6101, 6201, 6211, 6221) **Grades**: 9-12

### Electronic Keyboard Ensemble

This unique, extra-curricular performing group explores various styles of music arranged for keyboard instrumentation. Performance at all concerts/events scheduled for the ensemble, in addition to class participation expectations. **Prerequisites**: Individual audition and/or membership in a related major performing organization. (Courses 6100, 6101, 6201, 6211, 6221) **Grades**: 9-12 (Main Campus)

#### **Percussion Ensemble**

This unique, extra-curricular performing group explores various styles of music arranged for percussion instruments. Performance at all concerts/events scheduled for the ensemble, in addition to class participation expectations. **Prerequisites**: Individual audition and/or membership in a related major performing organization. (Courses 6100, 6101, 6201, 6211, 6221)

Grades: 9-12 (Main Campus)

# Visual/Studio Art Courses

Studio Arts Courses -the following courses can be used for the required studio art credit for graduation.

@ 1.0

@1.0

### Visual Arts courses which satisfy the NYS Graduation Requirement for 1 Arts Credit, in full, with no prerequisites required:

Clothing and Textile/Intern Design - CRS 7621 @ 1.0 Design and Drawing for Production - CRS 7661 @ 1.0 Digital Studio in Art - CRS 6011 @ 1.0 Studio in Art - CRS 6001 @ 1.0 Video Production - CRS 7901 @ 1.0 Visual Communications & Design 1 - CRS 6041 @ 1.0

#### Clothing and Textile/Intern Design CRS 7621

Main Campus- The content of this course includes the cultural and historical aspects of textiles and clothing, personal appearance, the design, construction and selection of clothing and related career opportunities. Students will learn basic pattern use and sewing machine skills. Students will learn the elements and principles of design and how to use color. The content of this course studies housing history and current trends in interior design.

#### Prerequisites: None

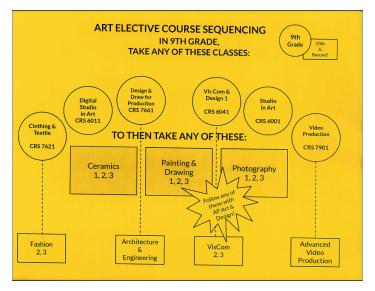
**Course Requirements**: The completion of one clothing project and the purchase of patterns and notions needed to complete their garment.

#### Satisfies NYS Graduation Requirement for 1 Arts Credit

#### **Design and Drawing for Production - CRS 7661**

Both Campuses -The Design and Drawing for Production (DDP), course of study, are focused on technical drawing techniques, the different styles of drafting, and promote creative problem solving through design. Projects will be centered on a variety of drawing styles, the design process, 3-dimensional modeling skills using AutoCAD, and model making. Assignments will include all forms of technical drawing and presentations. Students who plan to enter into the architectural field, engineering design or other technical studies should consider this fundamental course as early as possible. **Prerequisites**: None

Satisfies NYS Graduation Requirement for 1 Arts Credit



#### Digital Studio in Art - CRS 6011

Both Campuses- In this class, students will study a variety of media, art styles, and artists. Students use image editing, compositing, animation, and digital drawing to put into practice the art principles discussed in the program. They explore career opportunities in the design, production, display, and presentation of digital artwork.

@1.0

@1.0

Prerequisites: None

**Course Requirements**: Completion of projects, work process, and portfolio

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### Studio in Art - CRS 6001

Both Campuses - As a Drawing and Painting foundation course in this department, Studio in Art introduces students to a variety of concepts, skills, and techniques necessary for successful visual expression. Many different media will be used in areas of exploration and experimentation. Students will learn to analyze their work, study important works of art and participate in discussions about art.

Prerequisites: None

**Course Requirements**: Completion of projects, work process, and portfolio

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### Visual Communications & Design 1 - CRS 6041

Main Campus - This is a foundation course for students who are motivated toward study in advertising and graphic design. To be successful in advertising, you have to understand the creative process and how words and pictures connect. Using contemporary media similar to that used by professionals, students will engage in process-oriented projects like generating print ads. An introduction to computer graphics, desktop publishing, storyboards for television and radio spot ads makes this course the choice for students looking for a future in the communications field.

#### Prerequisites: None

Course Requirements: Sketchbook and portfolio including projects, research, and a final evaluation.

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### Visual Communications & Design II - CRS 6051

Main Campus - This intermediate course builds on the successes established in Vis Com I. Creativity takes a level of commitment. It is in this regard that the overarching focus of 'being a designer's furthered. Harnessing the creative process, time management, and making deadlines is further supported along with tackling higher-order design projects. Adobe Illustrator is introduced as well. Along with increasing the skill level in using Adobe Photoshop and InDesign, Illustrator rounds out the student designers options in their quest to arrive at the best design answers. Careers in this field are also discussed as well as portfolio preparation for post-high school educational paths.

Prerequisites: Visual Communications & Design I

Course Requirements: Additionally, students are required to maintain a sketchbook, folder, and portfolio; as well as attend various field experiences.

Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Video Production - CRS 7901

@1.0

@1.0

@ 1.0

Both Campuses - This course explores elementary video production principles, practice, and operation. Emphasis is placed on the laboratory elements of scripting, lighting, audio, camera, switching, character generator and Chroma key. Students will also study a variety of media, art styles, and artists. Students use image editing, compositing, animation, and digital drawing to put into practice the art principles discussed in the program. Practical experience in producing video projects will be reviewed.

#### Prerequisites: None

Course Requirements: Completion of all class assignments and tests

Satisfies NYS Graduation Requirement for 1 Arts Credit

#### Visual Communications & Design III - CRS 6061

Main Campus- This upper-level course rounds out a rich and vigorous sequence of design classes that deliver marketable skills and/or collegiate preparation for a career in creative media. This course is on the books as Vis Com 3, but we are collectively known as 'The Fullerton Crew.' Our mission statement: "The Fullerton Crew is a student-driven design firm whose primary focus is meeting design needs from across the varied groups in this community. "We specialize in branding/logo design •flyers/brochures/banners Understanding the dynamic of the client/designer relationship is also articulated and supported. These students take this task seriously as they set about to meet design needs and put their skills to the test! Application of their skill and the interpersonal experiences of a designer-client relationship is fostered to enrich this upper-level design experience.

Prerequisites: Visual Communications & Design I and II Course Requirements: Portfolio generation (online & traditional) will be addressed as well for those students who see themselves furthering this endeavor beyond NFA. Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisites completed.

#### Ceramics 1 - CRS 6941

Both Campuses - An introductory course is offering a study of basic clay working processes using hand building techniques as well as the potter's wheel. Design & craftsmanship is stressed. Prerequisites: Studio in Art or Digital Studio in Art Course Requirements: Completion of projects Satisfies NYS Graduation Requirement for 1 Arts Credit

#### **Ceramics 2 - CRS 6951**

Both Campuses - This course will emphasize extensive operation of the potter's wheel; as well as the history and theory of ceramics. Students will also research the use of clay as art, and as a craft.

Prerequisites: Ceramics 1

Course Requirements: Advanced hand-building/production on the wheel and a final project.

Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### **Ceramics 3 - CRS 6961**

@1.0

@1.0

@1.0

Both Campuses - This course is designed for the serious-minded student contemplating a career in ceramics. Projects will be tailored toward career options in higher education or employment. Development of personal style will be encouraged.

Prerequisites: Ceramics 2

Course Requirements: Advanced hand-building/production on the wheel and a final project.

Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Painting & Drawing 1 - CRS 6901

Both Campuses - Serious students who have demonstrated a sincere interest in drawing and painting experience a variety of media, oil, acrylic and watercolor paints, charcoal, pencil, and crayon. Of concern will be the development of individual artistic expression. Consideration will be given to theory and history of painting and the works of important artists.

#### Prerequisites: Studio in Art

**Course Requirements**: Completion of sketchbook and painting portfolio

### Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Painting & Drawing 2 - CRS 6911

@ 1.0

1.0

Both Campuses -This is an advanced painting course for students whose interest, seriousness and talent have been demonstrated in the first year of study. Considerable emphasis will be placed on coordinating technique with personal expression.

**Prerequisites**: Grade of 85% or higher in Painting & Drawing 1 **Course Requirements**: Completion of sketchbook and painting portfolio

#### Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### Painting & Drawing 3 - CRS 6921

@1.0

Both Campuses -This course continues the development of skills presented in Painting and Drawing 2 as well as provides an opportunity for individualized instruction for those students contemplating a career in the fine arts. Particular emphasis will be placed on the methods, techniques, and practices of contemporary art and artists.

Prerequisites: Painting & Drawing 2

**Course Requirements:** Completion of sketchbook and painting portfolio

## Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

#### AP Art & Design - CRS 6931

@1.05

Main Campus - This course is a focused, in-depth study of media, techniques, and the creative process. It is intended for students who wish to pursue serious study in the arts. This is a college-level course that prepares the students for advanced work.

\*Assessment by the College Board may qualify a student for college credit.

**Prerequisites:** Studio in Art and one other art course **Course Requirements:** Completion of all AP Portfolio Criteria **Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisites completed** 

#### Photography 1 - CRS 6071

@1.0

Main Campus - Designed for beginning and advanced students, this program is a rigorous combination of technical, aesthetic and historical presentations, digital and darkroom work, studies in photographic composition, critical group discussions and written responses to readings, lectures, and gallery visits. In addition to the digital camera and editing concepts, students will be introduced to film photography, darkroom printing, and scanning of film images for manipulation in the digital editing format. Students will learn about digital printing and preparation of work for display. Photography students will have created a portfolio of work that can be used to present for post-high school studies and career opportunities.

**Prerequisite**: Digital Studio in Art, or Studio in Art, or Visual Communications & Design I

**Course Requirements**: Participation in class work, homework, and class discussions. Creation of a photographic portfolio. Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed.

#### Photography 2 - CRS 6081

Main Campus - This course explores advanced photographic procedures and techniques. Continuation of aesthetic concepts in photographic composition, students will learn advanced digital camera work and Photoshop editing techniques Delving deeper into darkroom film photography, students will work with alternative films and camera formats. Research and written component involving documentary photography history and practicum. An independent portfolio of thematic work will be created over the course of the year to expand subject matter choices and composition approaches. **Pre-requisites**: Photography 1

**Course Requirements**: Participation in class work, homework and class discussions. Independent work and research project. Creation of a photographic portfolio.

Satisfies NYS Graduation Requirement for 1  $\ensuremath{\mathsf{Arts}}$  Credit and prerequisite completed

#### Photography 3 - CRS 6181

@ 1.0

@1.0

Main Campus - this course further expands the knowledge and techniques in advanced B&W darkroom photography and digital photography. You will work with medium and large format film cameras in this class. Alternative types of film, developing, printing and chemical processes will be explored. Creative techniques will be explored using Photoshop software. We will examine the work of contemporary photographers and incorporate their ideas and techniques into our own work. Work on independent themes are emphasized as well as creation of a senior portfolio of prints. You will create your own photographic based website using Wix Sites. Work will be submitted for display in a photo exhibition in the NFA Gallery. **Prerequisites**: Photography 2

**Course Requirements**: Participation in class work and class discussions. Independent work and research project. Creation of college level photographic portfolio.

Satisfies NYS Graduation Requirement for 1 Arts Credit and prerequisite completed

# **Physical Education & Health Courses**

#### **Physical Education and Health Courses**

- 1. Team Sports
- 2. Individual Sport, Wellness and Recreation
- 3. Lifetime Fitness
- 4. Elite Fitness
- 5. Aquatics
- 6. Lifeguard Training
- 7. Health
- 8. Dance

#### Team Sport - CRS 9451

@ 0.5

@ 0.5

Develop intermediate to advanced skill level in individual/team sport and fitness, Football, Volleyball, Basketball, Cross Country/Track & Field, Lacrosse as well as completing hands-only instruction in cardiopulmonary resuscitation (CPR) and instruction in the use of Automated External Defibrillators (AEDs0, etc. First Aid)

#### Individual Sport, Wellness, & Recreation -CRS 9331 (Coed)

Develop intermediate to advanced skill level in individual/team sport and fitness. Walking, Ping Pong, Badminton, Cooperative Games, outdoor games as well as completing hands-only instruction in cardiopulmonary resuscitation (CPR) and instruction in the use of Automated External Defibrillators (AEDs.0 Etc. Basic First Aid, Community/School Service Project. **Prerequisite**: None

#### Lifetime Fitness - CRS 9461

Ø 0.5

Become familiar with the latest trends in life-long fitness activities. Circuit Fitness, Bootcamp, Yoga, Pilates, Weight Training, Track Activities, Aerobics, Interval Training, P90X, Insanity.

Prerequisite: None

#### Elite Fitness - CRS 9351

@0.5

Sport specific training geared towards increasing individual performance in sport. Weight Training, Cross Training, TRX, Cross Fit, Plyometric, Cardio Interval Training, Speed & Agility, Diet and Nutrition, Personal Fitness Assessments. **Prerequisite**: Must be a member of a school team or

successful completion of Lifetime Fitness

#### Aquatics - CRS 903 (Coed) 903B (Boys) 903G (Girls) 🛛 🕫 0.5

Introduce and review basic swimming and survival skill. Treading, Front, back, breast, finning, butter flying, Aquatic Games, Interval Training, Distance Swimming, Individual Workouts. Will not be offered for the 20-21 school year due to pool repairs.

Prerequisite: None.

#### Lifeguard Training (Coed) - CR 9371 Ø0.5

Earn ARC Lifeguarding certification course. Recognizing hazardous situations and prevention of injury. Response to aquatic emergencies and rescue skills.

Prerequisite: Must be able to pass basic swim test

#### Health - CRS 9216

@ 0.5

Both Campuses - The Health course is founded on the principle of "wellness" and constructed to allow all students to make positive healthful decisions throughout their lives. The course consists of personality development, introduction course will emphasis on 4th, 5th and 6th psychology, conflicts, problem solving and decision making. The prevention as well as the physiological and psychological effects of mental illness, smoking, alcohol, drug abuse, and sexually transmitted diseases is all part of Health education. Finally, the topics of nutrition and how diet affects health, physical fitness are covered as well as a review of standard first aid. **Prerequisites**: The 1970 Mandate from the Commissioner of Education requires health education as a constant for all pupils.

This half credit health course is required for all students.

#### Dance 1 - CRS 9503

This course is open to students of all dance levels to improve their technique, choreography, and performance skills. Participation in dance technique classes and successful completion of choreography/performance assignments is required.

#### Prerequisite: None

Grades: 9-12 (Main Campus)

#### Dance 2 - CRS 9500

@0.5

Detailed work in technique, choreography, and performance. Scholars develop the skills necessary for basic through intermediate levels of dance.

**Prerequisites**: Successful completion of Dance 1 or instructor permission.

Grades: 10-12 Main Campus

#### Dance 3 - CRS 9501

@0.5

Build on skills learned in Dance 1. Scholars develop skills for intermediate through advanced levels of dance.

**Prerequisites**: Successful completion of Dance 2 or instructor permission.

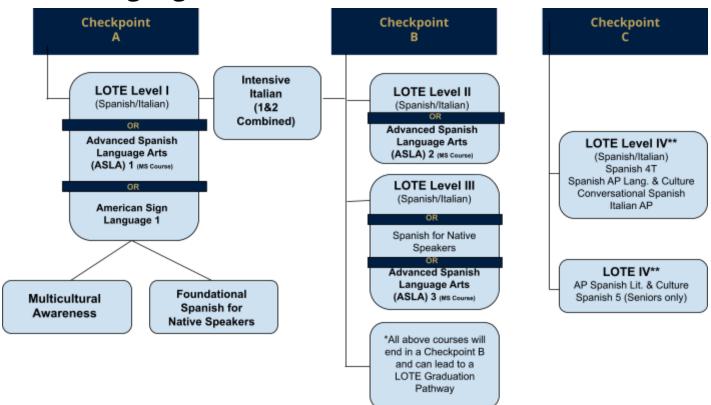
Grades: 11-12 (Main Campus)

#### Advanced Dance - CRS 9502

@ 1.0

Dance technique and performance with advanced dance training. Individual auditions are required to enroll in this course. Course concentration is on a variety of dance styles, including jazz, ballet, modern and other. **Prerequisites**: Audition; instructor permission **Grades**: 11-12 (Main Campus)

## World Languages



\*\* Checkpoint C Level Courses that can assist students in earning New York State Seal of Biliteracy. For more information on the Seal of Biliteracy please see page 8 or <u>http://www.nysed.gov/world-languages/new-york-state-seal-biliteracy-nyssb</u>

# Languages Other Than English (LOTE) Course

#### American Sign Language I - CRS 2200

@1.0

This course is designed to introduce students to American Sign Language. In the first year of study, a basic understanding of the target language is developed. American Sign Language I course enables students to communicate through fingerspelling, signed words, and gestures. Reading and writing as well as basic structure of the language are learned early in the first year of study.

### Prerequisites: None.

**Course Requirements**: satisfactory notebook, culture project, school examination

#### Italian I - CRS 2111

@1.0

In the first year of study, a basic understanding of the target language is developed. Students learn to talk about themselves, their home and community, school, sports, weather, and time. Reading and writing as well as basic structure of the language are learned early in the first year of study. Readings and conversations also center on the lives and customs of the people living in countries that speak Italian.

#### Prerequisites: None.

**Course Requirements**: satisfactory notebook, culture project, school examination

#### Intensive Italian-CRS 2101

@1.0

This course is designed for students who are in between a Level 1 and Level 2 language proficiency. In this course of study, listening, speaking, reading and writing skills acquired the previous year are improved and expanded. Level 1 course work is reviewed. In addition, reading, guided composition and a study of basic structure are used to further develop the student's understanding and use of Italian. Language activities in the second year center on geography, travel, social customs and historical concepts unique to countries that speak Italian. **Recommended for students who passed Italian 1 with a low grade, those who were not able to take Italian in MS, but who are interested in learning Italian and students who completed SLA Pathway courses and are now interested in learning Italian (and would like to earn the Seal of Biliteracy in Spanish & Italian).** 

**Prerequisites**: Completion of the first year of study and Checkpoint A Exam or District Administrator approval based on previous course final grade average.

**Course Requirements**: satisfactory notebook, culture project, school examination

#### Italian 2 - CRS 2121

@1.0

In the second year of study, listening, speaking, reading and writing skills acquired the previous year are improved and expanded. Reading, guided composition and a study of basic structure are used to further develop the student's understanding and use of Italian. Language activities in the second year center on geography, travel, social customs and historical concepts unique to the countries that speak Italian. **Prerequisites**: Successful completion of the first year of study and Checkpoint A Exam or District Administrator approval based on previous course final grade average.

**Course Requirements**: satisfactory notebook, culture project, school examination

#### Italian 3 - CRS 2131

@1.0

In the third year, many areas of interest are explored through readings and practice with Italian. New vocabulary and additional grammatical structures are learned in order to broaden the ability of students to express themselves in Italian. Some modern writers are introduced at this level.

**Prerequisites**: Successful completion of the 2nd year of study. **Course Requirements**: satisfactory notebook, two culture projects, Checkpoint B

#### AP Italian Language and Culture - CRS 2143

This course includes advanced grammar with special attention to problems of idiomatic expressions and literary style, themes, oral presentations, and translation, a constructive analysis of the phonology, morphology, and syntax of English and Italian; a survey of the main literary currents and major writers of each century, e.g. Dante, Petrarca, Boccaccio, da Vinci, Columbo, Vespucci, Machiavelli, Michelangelo, Costiglions, Cellini, Galilei, Goldoni, Mestastasio, Manzoni, Garibaldi, Verdi, Verga, Pirandello, Marconi, Calvinol. There is an option of applying for 3 college credits from SUNY Albany.

**Prerequisites**: Successful completion of Checkpoint B Exam. A cumulative average of 85% or above in both the course work and the examination is recommended.

## **Course Requirements**: satisfactory notebook, research paper, school examination

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

#### Italian 5 - CRS 2153

This is a Level C course, recommended for students who have taken AP Italian Language and Culture. In this course, students will research a topic of interest and create a culminating project that displays his/her skills, abilities and talents in English and the target language. The Italian V course prepares students to communicate authentically in Italian by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas.

**Prerequisites**: Successful completion of AP Italian Language and Culture and meeting all other criteria for the New York State Seal of Biliteracy.

**Course Requirements**: Commitment to completing all Seal of Biliteracy requirements, completion and presentation of research papers/projects in both languages.

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

#### Spanish 1 - CRS 2211

@1.0

In the first year of study, a basic understanding of the target language is developed. Students learn to talk about themselves, their home and community, school, sports, weather, and shopping in both the present and past tense.

Reading and writing as well as basic structure of the language are learned early in the first year of study. Readings and conversations also center on the lives and customs of the people living in countries that speak Spanish.

Students who have repeatedly attempted to earn the 1 LOTE credit required for graduation may be enrolled in course 2210 (Language & Culture: Multicultural Awareness). Prerequisites: None

**Course Requirements:** satisfactory notebook, culture project, district-wide school examination

@1.05

#### Multicultural Awareness Spanish 1 - CRS 2210

Students who have repeatedly attempted to earn the 1 LOTE credit required for graduation may be enrolled in course 2210 (Language & Culture: Exploring Identity & Multiculturalism). Culture encompasses many things, which include but are not limited to language. This course would give cross-lingual comparisons through dialects and slang/jargon, it would also investigate the challenges of having a home culture that is distinct from school culture. A basic understanding of the target language is developed. Students learn to talk about themselves, their home and community, school, sports, weather, and shopping in both the present and past tense. Reading and writing as well as basic structure of the language are learned as a review of the first year of study. Readings and conversations also center on the lives/customs of the people living in countries that speak the home languages studied. **Prerequisites**: repeatedly attempted to earn the 1 LOTE credit required for graduation

Course Requirements: satisfactory notebook, culture project,

district-wide school examination

#### Foundational Spanish for Native Speakers - CRS 2201 @ 1.0

This course combines level 1 and level 2. The Foundational Spanish for Native Speakers course will provide additional support to our Newcomer Spanish Speaking ELLs who arrive at the high school level with low or no literacy skills in their home language (Spanish) and/or are SIFE (Students with Interrupted/ Inconsistent Formal Education). This course will provide the opportunity to our Newcomer ELLs to earn 1 LOTE credit (required for graduation). This course serves as a prerequisite for Spanish for Native Speakers for Bilingual Newcomer ELLs with low Spanish literacy skills; providing additional opportunities for the home language course required for our Bilingual students under CR Part 154-2.

**Prerequisites**: Newcomer ELLs who have low Spanish literacy skills and/or are SIFE and are in the Bilingual program.

#### Spanish 2 - CRS 2221

@1.0

@1.0

In the second year of study, listening, speaking, reading and writing skills acquired the previous year are improved and expanded. Reading, guided composition and a study of basic structure are used to further develop the student's understanding and use of Spanish. Language activities in the second-year center on geography, travel, social customs and historical concepts unique to the countries that speak Spanish. **Prerequisites**: Successful completion of the first year of study and Checkpoint A Exam or District Administrator approval based on previous course final grade average.

**Course Requirements**: satisfactory notebook, culture project, district-wide school examination

Spanish 3 - CRS 2231 Ø 1.0 OR Advanced Spanish Language Arts 3 (for Middle School)

In the third year, many areas of interest are explored through readings and practice with Spanish. New vocabulary and additional grammatical structures are learned in order to broaden the ability of students to express themselves in Spanish. Some modern writers are introduced at this level. **Prerequisites**: Successful completion of the 2nd year of study. **Course Requirements**: satisfactory notebook, two culture projects, Checkpoint B

#### Spanish for Native Speakers (G) - CRS 2237 Ø 1.0

This course is designed to capitalize on the fluency, literacy and comprehension skills, which the student already has, and to meet his/her particular language needs. The focus is on increasing vocabulary and refining the use of correct Spanish. An important part of the course is the improvement of reading and writing skills with an emphasis on grammar. The student will become aware of Hispanic contributions to civilizations.

**Prerequisites**: The student **must be enrolled in the Bilingual program** and be a native speaker of Spanish with sufficient skills to speak and understand Spanish. (This course is a requirement for students enrolled in the bilingual program and it is the equivalent of Spanish 3 for Bilingual students).

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook, cultural project, Checkpoint B exam.

@ 1.0

#### Spanish 4T – Transitional - CRS 2241

This course is a high school Level C Spanish course for students who would like to continue more advanced studies of the language. The T at the end of the course's name stands for the word "transition", meaning that the students who are going to take this course are between level three and a more advanced study of the Spanish language.

**Prerequisites**: Successful completion of Spanish 3, Spanish for Native Speakers (or ASLA 3 in Middle School) and Checkpoint A & Checkpoint B Exams or approval from the Dir. of Language Acquisition. A cumulative average of 85% or above in both the course work and the examination is recommended.

**Course Requirements:** Satisfactory knowledge of Spanish grammar, intensive vocabulary study, basic writing and reading skills, cultural related projects and a final examination.

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

#### AP Spanish Language and Culture - CRS 2243

This course is an advanced study of the Spanish language at the intermediate level. In this course, students will further develop the four linguistic skills of language learning. They will acquire a higher level of proficiency in the language through the usage of relevant materials such as computer technology, up-to-date textbooks, newspapers, magazines, films and individual presentations of students in class. The reading and writing aspect of this course will be achieved through the study of current literature of the Spanish-speaking world dealing with issues relevant to today's world. An in-depth study of grammatical structures will be incorporated throughout this course.

**Prerequisites**: Successful completion of Spanish 3, Spanish for Native Speakers or Spanish 4T and Checkpoint A & Checkpoint B Exams or approval from the Dir. of Language Acquisition. A cumulative average of 85% or above in both the course work and the examination is recommended. For students who are native-speakers, an average of 90% or above in Spanish for Native Speakers is recommended.

**Course Requirements**: Successful completion of coursework, AP Spanish Language examination recommended.

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

#### AP Spanish Literature - CRS 2263

@ 1.05

@1.05

This course is designed to provide students with a learning experience equivalent to that of a third-year college course in Peninsular and Latin-American literature. This course covers the major movements in Hispanic literature from the medieval period through the latest literary trends. It breaks down the barriers of national literature to illustrate the ties that exist between the cultural productions of both sides of the Hispanic world. The literary text is taught, not as an end in itself, but as a cultural and historical construct from which we can glean many aspects of Hispanic studies – from simple customs to basic values. The goal of the course is to teach students the tools of analysis in order to extract this vital information from text.

**Prerequisites**: Successful completion of AP Spanish Language, or approval from the Dir. of Language Acquisition. A score of 3+ or higher in the AP Spanish Language and Culture exam recommended.

**Course Requirements:** satisfactory notebook, several literary projects, school examinations, AP examination

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

#### Spanish 4 – Conversational CRS 2203

This is a college course given through the program called "High School at the University, at the State University of New York Albany Campus". Students enrolled in this course will continue the study of the Spanish language equivalent to an intermediate level course of study at the university level.

**Prerequisites:** Students must have completed three years of Spanish successfully at the Regents level. It is recommended that the student have a cumulative average of 85% or above in both the course work and the examination.

**Course Requirements**: Emphasis will be given to the acquisition of new vocabulary and new expressions of the language. Emphasis will also be given to conversational and Spanish 4, cont'd - comprehensive skills. Students will have an in-depth review of grammatical structures and writing skills. At the end of the year, students will take an oral and written final examination.

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

#### Spanish 5 - CRS 2253

Ø 1.05

This is a Level C course, for Seniors who have completed Level 3 Spanish or Spanish for Native Speakers; have not taken Spanish 4T, AP Spanish or Conversational Spanish and who are pursuing the NYS Seal of Biliteracy. In this course, students will research a topic of interest and create a culminating project that displays his/her skills, abilities and talents in English and the target language. The Spanish 5 course prepares students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas.

**Prerequisites**: Successful completion of a Level 3 Spanish course and Checkpoint B; meeting all other criteria for the New York State Seal of Biliteracy.

**Course Requirements**: Commitment to completing all Seal of Biliteracy requirements, completion and presentation of research papers/projects in both languages.

\*A final grade of 85+ on this course earns 1 point criteria for the Target Language towards earning the Seal of Biliteracy.

# Career and Technical Education



#### **Department Vision**

The Newburgh Free Academy Career Pathway programs will prepare all

students to be lifelong learners who can adapt to a changing world. Our graduates will be ready to transition to a career or college.

#### **Department Mission**

The mission of the Visual Arts and Career and Technical Education program is to cultivate the potential in our students by integrating rigorous classroom instruction with relevant, work-based experiences that inspire, guide and empower them for post-secondary college and careers. Our CTE program will bridge the academic, employability and technical skills that prepare our students for leadership roles in the working world.

#### Notes on choosing your Pathway Program

The Newburgh Free Academy Career Pathway programs emphasis is on developing workplace skills and academic rigor that enables our students to become better qualified to compete for a career of their choosing. Our career courses allow students to discover their talents, skills, and abilities and then chart an appropriate path toward career choices to produce a more informed, satisfied, and productive workforce.

Students will be required by 10th grade to lock in their Pathway course of study. Each Pathway program is a course of study that leads to a special designation on the diploma upon graduation. Additionally, the description of the courses listed for each Pathway must be taken sequentially as they are specific to the New York State approved national CTE assessment.

Program Pathway	College and Trade School Articulations Agreements
Auto Technology	Alfred State College & Rockland Community College
Barbering	Bryant and Stratton
Construction	Alfred State College & SUNY Delhi & Mohawk Community College
Cosmetology	Bryant and Stratton
Criminal Justice	Bryant and Stratton & Columbia Greene Community College & Mohawk Community College
Culinary	Affiliated with the New York Restaurant Association/ Niagara County Community College & Mohawk Community College
Electrical	Bryant and Stratton
Fashion Design	Bryant and Stratton
Health Occupations	Bryant and Stratton Monroe College & Mohawk Community College
Photography	Mohawk Community College
Welding	SUNY Delhi & Alfred State College & Mohawk Community College
Video Production 56	Mohawk Community College

#### **Career and Technical NYSED Approved Programs**

Architecture & Engineering Pathway	Architecture & Engineering Course Descriptions
English 9	Design and Drawing for Production CRS 7661 🛛 🖉 1.0
US History	Both Campus -The Design and Drawing for Production (DDP) course of study are focused on technical drawing techniques, the different styles of drafting, and
Algebra 1	promote creative problem solving through design. Projects will be centered on a
Liv. Env. or Earth Science (Lab)	variety of drawing styles, the design process, 3-dimensional modeling skills using AutoCAD, and model making. Assignments will include all forms of technical drawing
Phys. Ed.(Opposite Science Lab)	and presentations. Students who plan to enter into the architectural field, engineering design or other technical studies should consider this fundamental
Foreign Language	course as early as possible. <b>Prerequisites</b> : None
Design & Drawing 7661	
	Engineering Drafting and Design CRS 7671 Ø1.0
English 10	Main Campus - The Engineering Drafting and Design course involves advanced technical design and is focused on the design process and prototyping skills. Projects
Global I	will be centered on the processes of research, brainstorming, sketching, template design, 3D modeling using Autodesk software, and 3D printing fundamentals.
Geometry	Students will study everyday physical objects and mechanical devices, attempting to replicate or make improvements to these items. Students will develop and test a variety of 3-dimensional models made both by hand and with 3D printers.
Liv. Env. or Earth Science (Lab)	
Phys. Ed.(Opposite Science Lab)	Prerequisites: CRS 7661 - Design & Drawing for Production
Health	Architectural Drafting and Design CRS 7681 🖉 1.0
	Main Campus - The Architectural Drafting and Design course of study is focused on residential structures and 3 dimensional modeling skills. Projects will be centered on the design process, floor plan drafting, 3D model making, and sustainable building methods. Students will study the history of architectural design and techniques used
English 11	in designing and planning residential structures. <b>Prerequisites</b> : CRS 7661- Design & Drawing for Production
Global II	1
Algebra II	Work StudyCRS 7761 & 7781Ø 0.5 & 1.0Mentor/Mirror/ Job shadow professionals in the field.
Phys. Education (Opposite Sci. Lab)	Make connections for YOUR SUCCESSFUL Career in the Food Industry.
Chemistry (or Sci. Elective)	<b>Course Requirements</b> : Students will be required to prepare a project and do a
Engineering Design 7671	– presentation at the end of this course.
English 12	
Government/Economics	
Physical Education	
Architecture Design 7681	
WorkStudy 7761 & 7781	1

### Auto Body Repair Pathway

### Auto Body Repair Course Descriptions

Basic Auto Body - CRS 7801 🥏 0.5	
Main Campus - Students entering this course should be considered a sequence in	
<ul> <li>Occupational Education and have a strong interest in auto body repair or vehicle maintenance. Good reading skills and mature work behavior is a must. Instruction w include:</li> <li>1. Auto body safety and work attitudes</li> </ul>	
4. Basic hand tools and dolly repairs	
Practical application will be done on test panels, not live autos. This course will not include student-owned vehicle repair and repainting.	
<b>Prerequisites</b> : None <b>Course Requirements</b> : Students should expect to get dirty, and use of appropriate	
occupational clothing is required.	
Auto Body 1 - CRS 7811 / 7812 2 Periods 🖉 2.0	
Main Campus - This course is intended for the student who is seriously considering Auto Body Repair and Refinishing as a career. The course will require a two-period	
time block for a full year.	
The course will include: 1. Auto Body Shop practical, appropriate work behavior, attitude and career	
<ul> <li>opportunities</li> <li>2. Automotive Repair Welding Systems. Oxyacetylene, MIG &amp; Resistance Spot Weldi</li> <li>3. Practical application of Auto Body repair materials and repair procedures for met fiberglass, and plastic.</li> </ul>	
	4. Advanced application of abrasives with air and electrical power tools
<ul><li>5. Removal, repair, and replacement of Auto Body panels</li><li>6. Introduction to painting and refinishing materials and techniques</li></ul>	
Prerequisites:         Basic Auto Body #7801           Course Requirements:         Students must provide suitable work clothes and work suitable work suitable work clothes and work suitable work	
Auto Body 2 - CRS 7821 / 78222 Periods	
Repair, to accept entry-level employment in the field or secondary education in auto	
body. Full-year 2 periods a day, every day. The second-year instruction will stress skills such as:	
<ol> <li>Advanced repair of sheet metal, fiberglass, and plastics</li> <li>Collision estimating and basic frame straightening for autos</li> </ol>	
3. Advanced paint systems as used on modern cars and light trucks, including acrylic enamel, polyurethane enamels, epoxies for spot, panel, and overall repainting; base	
coat/clear coat technology	
Prerequisites: Auto Body 1 #7811	
WorkStudy - CRS 7761 & 7781   Ø 0.5 & 1.0	
Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOU SUCCESSFUL Career in your area of study.	
<b>Course Requirements</b> : Students will be required to prepare a project and do a presentation at the end of the course.	
*** Articulation Agreement with Alfred State College	

Automotive Technology Pathway	Automotive Technology Course Descriptions
English 9	Fundamentals of Auto Technology - CRS 7701 🛛 🖉 0.5
US History	Main Campus - This course is designed for students who know little about cars. Basic
Algebra 1	Auto Technology provides detailed information on how basic automotive systems
Liv. Env. or Earth Science (Lab)	work, how to maintain automobiles and do simple repairs. Designed for beginners,
Phys. Ed.(Opposite Science Lab)	the everyday needs of the automobile owner/operator are addressed in this course. Some topics include engine tune-up, tire inspection, rotation, wheel balancing, brake
Foreign Language	inspection and repair, and exhaust inspection, repair, engine oil, and fluids. When
Required Art Credit	completed, this hands-on course can lead the student into a three-year automotive technology sequence or provide the student with enough knowledge and experience to be self-sufficient in basic automotive repairs and save them money for years to
English 10	come!
Global I	Prerequisites: None
Geometry	Course Requirements: Students should expect to get hands dirty and use appropriate occupational clothing.
Liv. Env. or Earth Science (Lab)	
Phys. Ed.(Opposite Science Lab)	Auto Technology 1 - CRS 7711 / 7712 2 Periods 🖉 2.0
Health	Main Campus – This course is designed for the serious automotive student after
Fundamentals of Auto Technology 7701	completing Fundamentals (Basic Auto). Students can expect to learn engine mechanics including engine performance and design, as well as, starting and charging systems, maintenance of cooling and lubrication systems. Also, chassis mechanics, including
	brakes, suspension, and driveline maintenance, and an introduction to the use of
English 11	testing equipment is stressed. Prerequisites: Basic Auto Mechanics #7701
Global II	Course Requirements: Students must provide suitable work clothes and work shoes.
Algebra II	
Phys. Education (Opposite Sci. Lab)	Auto Technology 2 - CRS 7721 / 7722 / 7723 3 Periods 🖉 3.0
Chemistry (or Sci. Elective)	Main Campus - The second year builds upon material learned in Occupational Auto 1,
Auto Technology 1 - 7711 (2 Periods)	as well as an introduction to more advanced automotive technology. Vehicle driveline, suspension systems, wheel alignment, engine diagnosis, electronic ignition, fuel
Auto Technology 1 7712 Lab	injection, and an introduction to computerized engine controls are covered in detail. Completion of this course will allow the student to begin a career in Automotive
	Mechanics on an entry level. The course will also guide students who choose to obtain
English 12	a post-secondary education in Automotive Technology. Prerequisites: Completion of Auto Mechanics I #7711
Government/Economics	Course Requirements: Students must provide suitable work clothes and work shoes.
Physical Education	Completion of assignments.
Auto Technology 2 7721 (3 Periods)	WorkStudy - CRS 7761 & 7781 0.5 & 1.0
Auto Technology 2 7722/7723 Lab	WorkStudy - CRS 7761 & 77810.5 & 1.0Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR
Workstudy 7761 and 7781	SUCCESSFUL Career in your area of study. Course Requirements: Students will be required to prepare a project and do a presentation at the end of the course.
	* NYSED APPROVED PROGRAM ** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway *** Articulation Agreement with Rockland Community College & Alfred State College

### **Barbering Pathway**

### **Barbering Course Descriptions**

English 9	Barbering I - CRS 7161 Ø 1.0	
US History	Main Campus - This course includes the practice and study of the fundamentals of soft	
Algebra 1	<ul> <li>skills, safety and handling of equipment, shampooing, unisex haircuts, manicures, facials, scalp treatments, massage manipulations, proper draping, and decontamination and infection control. Students will have access to laptops containin eBooks, and the ability to note taking, highlight, and self-test through digital means.</li> </ul>	
Liv. Env. or Earth Science (Lab)		
Phys. Ed.(Opposite Science Lab)	Students will be required to pass practical and written exams. A passing grade, 250 hours, and an apprenticeship at a barbershop is required to advance to Barbering II.	
Foreign Language	Prerequisites: Must be in 11th and 12th grade	
Required Art Credit	Course Requirements: A three ring binder	
	Barbering II - CRS 7171 / 7172         2 Periods         @ 2.0	
English 10	Main Campus - This course includes the practice and study of the fundamentals of soft skills, advanced haircutting techniques, facial/neck straight razor shaving, hands-on	
Global I	experience in the senior clinic, preparation for the New York State Practical Licensing exam. Students will have access to laptops containing eBooks, and the ability to note	
Geometry	taking, highlight, and self-test through digital means. Students will be required to pass practical and written exams. A passing grade, 250 hours, and an apprenticeship at a	
Liv. Env. or Earth Science (Lab)	barbershop is required to be eligible to sit for the New York State Licensing	
Phys. Ed.(Opposite Science Lab)	<ul> <li>Examination.</li> <li>Prerequisites: 250 hours, Apprenticeship, Barbering I</li> </ul>	
Health	<ul> <li>Course Requirements: Purchase of towels, water bottle, shaving cream, shampoo cape, massage cream, cleansing cream, and shampoo are necessary extra supplies f the New York State Licensing exam.</li> </ul>	
	WorkStudy - CRS 7761 & 7781 0.5 & 1.0	
English 11	Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR SUCCESSFUL Career in your area of study.	
Global II	Course Requirements: Students will be required to prepare a project and do a	
Algebra II	<ul> <li>presentation at the end of the course.</li> </ul>	
Phys. Education (Opposite Sci. Lab)	<ul> <li>* NYSED APPROVED PROGRAM</li> <li>** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway</li> </ul>	
Chemistry (or Sci. Elective)		
Barbering I 7161		
English 12	7	
Government/Economics		
Physical Education	7	
Barbering II 7171 (2 periods) (eligible for NYSED certification exam)		
Barbering II b 7172 Lab Required- Workstudy 7761 and 7781		

Computer Science and Coding Pathway	Computer Science and Coding Course Descriptions
English 9	Computer Science Principles - CRS 7411 Ø0.5
US History	Computer science course, students will learn the basics of designing a web page and
Algebra 1	fundamentals of computer science. Students will learn the basics of HTML, CSS, basic programming, machine learning, hardware and software and game development using
Liv. Env. or Earth Science (Lab)	programming. Students have a choice to get AP credit for this course. <b>Prerequisites</b> : None
Phys. Ed.(Opposite Science Lab)	Course Requirements: Participation in hands-on activities and completion of
Foreign Language	assignments.
Computer Science Principles 7411	Motion Design and Animation - CRS 7421 🛷 0.5
Motion Design and Animation 7421 English 10	Students will get an introduction to the basic principles of animation as they use Adobe After Effects, Adobe Animate and CSS to create digital animations. Students will combine graphics, sound, text and video to create and deliver interactive media for web and gaming applications. Students will leave the class with a portfolio of work. <b>Prerequisites</b> : None
Global I	<b>Course Requirements</b> : Participation in hands-on activities and completion of assignments.
Geometry	Survey of Computing - CRS 7431
Liv. Env. or Earth Science (Lab)	Ø 1.0
Phys. Ed.(Opposite Science Lab)	Web Design I is a project-based course that teaches students frontend and backend web development. Q1 & 2 students will learn coding languages HTML and CSS and
Health	Java. Q3 & 4 students will develop skills in cloud computing using Amazon Web
Web Design I 7131	Services.  Prerequisites: Computer Science Principles
	<b>Course Requirements</b> : Participation in hands on activities and completion of assignments
English 11	
Global II	AP Computer Science A (APCSA) - CRS 7451 @ 1.05 AP Computer Science A is an introductory college-level computer Science course.
Algebra II	Students cultivate their understanding of coding through analyzing, writing, and testing
Phys. Education (Opposite Sci. Lab)	code as they explore concepts like modularity, variables and control structures. <b>Prerequisites</b> : Computer Science Principles
Chemistry (or Sci. Elective)	<b>Course Requirements</b> : Participation in hands on activities and completion of assignments
AP Computer Science A 7451	
	ECHS Newburgh/Marist Partnership The ECHS Newburgh/Marist partnership courses are within the CTE Department. The
English 12	first course Digital Citizenship is for 9th grade students that are accepted into the
Government/Economics	program. The second course, Software Development is for 10th grade students that are accepted into the program.
Physical Education	<b>Course Requirements</b> : Be a participant of the Marist class.
ECHS Marist Workstudy -7761 and 7781	

English 9 US History Algebra 1	Construction Course Descriptions	
Algebra 1		
<u> </u>		
Live Environ Forth Criance (Lab)	Introduction to Carpentry - CRS 7301 Ø 0.5	
Liv. Env. or Earth Science (Lab)	Main Campus - Course will introduce Basic Woodworking skills using hand machine	
Phys. Ed.(Opposite Science Lab)	tools. Projects will be tailored to incorporate various methods of furniture and cabinet construction.	
Foreign Language	Prerequisites: None	
Design & Drawing 7661	Course Requirements: Completion of assignments	
	Carpentry 1 - CRS 7311 / 7312 2 Periods 🥔 2.0	
English 10	Main Campus - A First-year course designed for students that intend to enter	
Global I	construction as a career. This is an introduction to carpentry as related to building	
Geometry	and construction trades. Students will learn to read and interpret blueprints,	
Liv. Env. or Earth Science (Lab)	estimate building costs, safe handling of hand tools and portable power tools, and techniques and processes involved in "rough" carpentry such as framing-floor, wall	
Phys. Ed.(Opposite Science Lab)	roof, sheeting, roofing, and siding.	
Health	Prerequisites: None	
Intro to Carpentry 7301	<ul> <li>Course Requirements: Students must provide suitable work clothes and work shoes.</li> <li>Students must be willing to work outside.</li> </ul>	
(Not required/ recommended)		
Architecture Design 7681	Carpentry 2 - CRS 7321/ 7322 / 7323 2 to 3 Periods 🔗 3.0	
	Main Campus - Second-year course for students that intend to enter construction as	
English 11	<ul> <li>a career. Students will continue to refine skills developed in the first year. Also, they will learn finish carpentry skills; such as drywall installation and finishing trim door and window installation, finish floor installation.</li> <li>Prerequisites: Building Construction/Carpentry 1 CRS 7311</li> <li>Course Requirements: Students must provide suitable work clothes and safety-type shoes. Willingness to do physical labor and work outside required.</li> </ul>	
Global II		
Algebra II		
Phys. Education (Opposite Sci. Lab)		
Chemistry (or Sci. Elective)		
Carpentry l 7311 (2 periods)	WorkStudy - CRS 7761 & 7781 0.5 & 1.0	
Carpentry I 7312 Lab	Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR	
	SUCCESSFUL Career in your area of study.	
English 12	Course Requirements: Students will be required to prepare a project and do a presentation at the end of the course.	
Government/Economics		
Physical Education	*NYSED APPROVED PROGRAM ** NYSE CTE DATE WAAY with Tochnical Accessment (NYS CDOS Dathway)	
Carpentry II 7321 (3 periods) (eligible for NYSED certification exam)	** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway *** Articulation Agreement with Alfred State & SUNY Delhi	
Carpentry 7322 Lab	-	
Carpentry 7323 Lab	-	
Work Study 7761 and 7781		

Cosmetology Pathway	
English 9	Cosmetology Course Descriptions
US History	Introduction to Cosmetology - CRS 7131 Ø 0.5
Algebra 1	Main Campus - This is a ½-year hands-on course in the basics of cosmetology. Students will explore roller sets, finger waving, permanent wave wrapping, pin curls,
Liv. Env. or Earth Science (Lab)	thermal curling techniques, hair styling, and paraffin hand wax. Also, the students will practice soft skills for entry-level employment. Our theory includes the history of
Phys. Ed.(Opposite Science Lab)	cosmetology, life skills, professional image and communication skills. Students will be required to take notes, practical assessment and chapter exams.
Foreign Language	Prerequisites: None
Required Art Credit	<b>Course Requirements</b> : Complete practical and theory assignments. Attendance is critical to ensure students' success.
	Cosmetology I - CRS 7141/7142/7143/7144 4 Periods @4.0
English 10	Main Campus - This course includes the practice and study in the fundamentals of
Global I	<ul> <li>manicuring, shampooing, styling, permanent waving, chemical texture services, haircutting, and soft skills necessary for entry-level employment. We stress the</li> </ul>
Geometry	<ul> <li>importance of sanitation, sterilization, and personal and public hygiene. A passing grade, 500 hours, and complete notebook are necessary to advance to Cosmetology II.</li> <li>Prerequisites: Must be in 11th or 12th grade (12th Graders will need to complete coursework in Cosmetology II program outside school district)</li> <li>Course Requirements: Purchase of Kit (Approximately \$250.00), three ring binder with 20 dividers</li> </ul>
Liv. Env. or Earth Science (Lab)	
Phys. Ed.(Opposite Science Lab)	
Health	
Into to Cosmetology 7131	Cosmetology II - CRS 7151/7152/7153/7154 4 Periods Ø 4.0
	Cosmetology II - CRS 7151/7152/7153/71544 Periods
English 11	emphasis on general science, nail enhancement procedures, skin care, hair color, advanced hair cutting, preparing for employment, and basic skills necessary to pass
Global II	the New York State licensing examinations. The weekly senior clinic offers the students an opportunity to practice their skills in a real work environment.
Algebra II	Completion of senior cosmetology requires a notebook, 500 hours, and a passing
Phys. Education (Opposite Sci. Lab)	grade. Upon this completion, students will be eligible to sit for the New York State Licensing Exams.
Chemistry (or Sci. Elective)	<b>Prerequisites</b> : 500 hours completed Cosmetology I and passing grade cosmetology I <b>Course Requirements:</b> Update Cosmetology Kit, Three Ring Binder with 20 Dividers
Cosmetology I 704 (4 periods)	
7141/7142/7143/7144	WorkStudy - CRS 7761 & 7781@ 0.5 & 1.0Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR
English 12	SUCCESSFUL Career in your area of study. <b>Course Requirements</b> : Students will be required to prepare a project and do a
Government/Economics	presentation at the end of the course.
Physical Education	-
Cosmetology II 7151/7152/7153/7154 (4 periods) (eligible for NYSED certification exam)	*NYSED APPROVED PROGRAM ** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway *** Articulation Agreement with Bryant and Stratton

Criminal Justice & Security Pathway	Program is at NFA North	
English 9	Criminal Justice & Security Course Descriptions	
US History	Introduction to Criminal Justice - CRS 7851 Ø1.0	
Algebra 1	North Campus	
Liv. Env. or Earth Science (Lab)	Experience how a Criminal Mind operates     Participate in simulations and labs	
Phys. Ed.(Opposite Science Lab)	<ul> <li>Discover the justice system (police courts corrections services)</li> <li>Prepare for a Career in Security, Law, and Forensics</li> </ul>	
Foreign Language	Prerequisite: None Course Requirements: Completion of assignments	
Required Art Credit	Course Requirements. Completion of assignments	
	Criminal Procedures/Security - CRS 7861 2 Periods 🖉 2.0	
English 10	North Campus	
Global I	<ul> <li>Apply Real Life Criminal Justice career skills</li> <li>Fingerprint, Criminal photography, Crime scene processing</li> </ul>	
Geometry	<ul> <li>Examine Drawing and Court presentations for evidence</li> <li>Solve the Crime!</li> </ul>	
Liv. Env. or Earth Science (Lab)	New York State Security Certification and Job Opportunities!     Prerequisite: Introduction to Criminal Justice	
Phys. Ed.(Opposite Science Lab)	Course Requirements: Completion of assignments	
Health	WorkStudy - CRS 7761 & 7781 Ø 0.5 & 1.0	
Intro. to Criminal Justice 7851	North Campus	
	<ul> <li>Mentor/Mirror/ Job shadow professionals in the field</li> <li>Explore Careers as Police Officer, 911 Dispatcher, and Security Guard</li> </ul>	
English 11	•Make connections for YOUR SUCCESSFUL Career in Law Enforcement or Security! Prerequisites: Law Enforcement /Security pathway- Introduction to Criminal Justice	
	Prerequisites: Law Enforcement /Security pathway- introduction to Criminal Justice	
Global II	#714N, Criminal Procedures#716	
Global II Algebra II		
	#714N, Criminal Procedures#716 Course Requirements: Students will be required to prepare a project and do a	
Algebra II	#714N, Criminal Procedures#716 Course Requirements: Students will be required to prepare a project and do a	
Algebra II Phys. Education (Opposite Sci. Lab)	#714N, Criminal Procedures#716 Course Requirements: Students will be required to prepare a project and do a	
Algebra II Phys. Education (Opposite Sci. Lab) Chemistry (or Sci. Elective) Criminal Procedure 7861 (eligible for NYSED certification	<ul> <li>#714N, Criminal Procedures#716</li> <li>Course Requirements: Students will be required to prepare a project and do a presentation at the end of this course.</li> <li>*NYSED APPROVED PROGRAM</li> <li>** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway</li> <li>*** Articulation Agreement with Bryant and Stratton &amp; Columbia Greene Community</li> </ul>	
Algebra II Phys. Education (Opposite Sci. Lab) Chemistry (or Sci. Elective) Criminal Procedure 7861 (eligible for NYSED certification	<ul> <li>#714N, Criminal Procedures#716</li> <li>Course Requirements: Students will be required to prepare a project and do a presentation at the end of this course.</li> <li>*NYSED APPROVED PROGRAM</li> <li>** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway</li> <li>*** Articulation Agreement with Bryant and Stratton &amp; Columbia Greene Community</li> </ul>	
Algebra II Phys. Education (Opposite Sci. Lab) Chemistry (or Sci. Elective) Criminal Procedure 7861 (eligible for NYSED certification exam)	<ul> <li>#714N, Criminal Procedures#716</li> <li>Course Requirements: Students will be required to prepare a project and do a presentation at the end of this course.</li> <li>*NYSED APPROVED PROGRAM</li> <li>** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway</li> <li>*** Articulation Agreement with Bryant and Stratton &amp; Columbia Greene Community</li> </ul>	
Algebra II Phys. Education (Opposite Sci. Lab) Chemistry (or Sci. Elective) Criminal Procedure 7861 (eligible for NYSED certification exam) English 12	<ul> <li>#714N, Criminal Procedures#716</li> <li>Course Requirements: Students will be required to prepare a project and do a presentation at the end of this course.</li> <li>*NYSED APPROVED PROGRAM</li> <li>** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway</li> <li>*** Articulation Agreement with Bryant and Stratton &amp; Columbia Greene Community</li> </ul>	

### Culinary Arts and Restaurant Management Pathway

### Culinary Arts and Restaurant Management Course Descriptions

English 9	Descriptions		
US History	Introduction to Food Service CRS 7201 @ 1.0		
Algebra 1	Main Campus		
Liv. Env. or Earth Science (Lab)	Build skills toward success in NFA Culinary Arts Program     Understand Culinary Management     Develop skills to prepare healthily and appetizing foods     Prerequisites: None		
Phys. Ed.(Opposite Science Lab)			
Foreign Language			
Required Art Credit	Course Requirements: Completion of assignments		
	Culinary Arts CRS 7211/7212 2 Periods 🖉 2.0		
English 10	Main Campus		
Global I	• This is a 2-period course		
Geometry	<ul> <li>Basic food preparation knowledge and skills</li> <li>Instruction by Culinary Experts in the operation of commercial food service</li> </ul>		
Liv. Env. or Earth Science (Lab)	equipment		
Phys. Ed.(Opposite Science Lab)	Course consists of both a lecture and lab component which is competency driven		
Health	Preparation for college-level Culinary and Hospitality Schools, job ready domestic		
Intro to Food Service 7201	<ul> <li>cooking.</li> <li>Prerequisites: Course 7201</li> </ul>		
	Course Requirements: Completion of assignments. New York State ProStart		
English 11	Curriculum		
Global II	Advanced Culinary Arts CRS 7221/7222/7223 3 Periods 🖉 3.0		
Algebra II	Main Campus		
Phys. Education (Opposite Sci. Lab)	This is a 3-period course		
Chemistry (or Sci. Elective)	• Craft amazing and fun food using flames, knives, and creative chemistry     • Work with professional chefs to create gourget foods, cakes, and pastrias		
Culinary Career Choice 7211	<ul> <li>Work with professional chefs to create gourmet foods, cakes, and pastries</li> <li>Develop entire food plans for unique diet plans</li> </ul>		
(2 Periods)	• Course consists of both a lecture and lab component which is competency driven		
Culinary Career Choice Lab 7212	Prepares students for job ready, domestic cooking and higher education at Culinary		
	and Hospitality Schools <b>Prerequisites</b> : CRS 7201 & CRS 7211 (Intro to Food and Culinary Career Choice)		
English 12	<b>Course Requirements</b> : Completion of assignments		
Government/Economics			
Physical Education	Work Study         CRS 7761 & 7781         Ø 0.5 & 1.0		
Advanced Culinary Arts 7221	Mentor/Mirror/ Job shadow professionals in the field.		
(3 Periods) (eligible for NYSED	Make connections for YOUR SUCCESSFUL Career in the Food Industry. <b>Course Requirements</b> : Students will be required to prepare a project and do a		
certification exam)	presentation at the end of this course.		
Advanced Culinary Arts Lab (3			
Periods) 7222/7223	The Nationwide, ProStart curriculum gives our students the exciting opportunity to learn about the art of cooking and managing restaurants by training with professional		
WorkStudy	chefs and getting valuable classroom instruction. It is also a way to earn college credit		
7761 and 7781	and make money while in high school.		
	*NYSED APPROVED PROGRAM		
	** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway		
	*** Articulation Agreement Affiliated with the New York Restaurant Association		

Electronics Pathway		
English 9	Electronics Course Description	
US History	Basic Electricity - CRS 7471 Ø0.5	
Algebra 1	<ul> <li>Main Campus - This course covers fundamentals of electricity and electronics. To covered will be basic housing wiring, electronics, low-voltage applications, tool</li> <li>identification and application, measuring, and basic audio systems. Students will make an electronics project and practice house wiring.</li> </ul>	
Liv. Env. or Earth Science (Lab)		
Phys. Ed.(Opposite Science Lab)	Prerequisites: None Course Requirements: Completion of assignments	
Foreign Language		
Required Art Credit	Electronics 1 - CRS 7481 Ø 1.0 Main Campus - This course includes a review of basic mathematics and algebra and	
	the introduction of basic physics. Basic electricity, DC and AC theory, and residential wiring and code compliance are emphasized. Lab work includes building sample	
English 10	residential walls to emphasize the application of schematic diagrams, proper wiring	
Global I	installation, and other test equipment. Prerequisites: None	
Geometry	Course Requirements: Completion of assignments	
Liv. Env. or Earth Science (Lab)		
Phys. Ed.(Opposite Science Lab)	Electronics 2 - CRS 7491 2 Periods Main Campus - This course continues the work and experience gained in Electron	
Basic Electronics 7471	1. This course will continue to build the student's knowledge through applying their	
	skills in various new situations. They will gain a deeper understanding of electrical code and safety issues that can arise. High voltage circuits and electrical panel work	
English 11	will be explored through classroom sample models. Students will learn to assess and troubleshoot common electrical issues and learn to repair and install new electrical	
Global II	components. Prerequisites: Electronics 1	
Algebra II	Course Requirements: Completion of assignments	
Phys. Education (Opposite Sci. Lab)	Work Study CRS 7761 & 7781 Ø 0.5 & 1.0	
Chemistry (or Sci. Elective)	Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR SUCCESSFUL Career in the Food Industry.	
Electronics l 7481	<b>Course Requirements</b> : Students will be required to prepare a project and do a presentation at the end of this course.	
English 12		
Government/Economics	*NYSED APPROVED PROGRAM	
Physical Education	** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway *** Articulation Agreement Affiliated with the New York Restaurant Association	
Electronics 2 7491 (eligible for NYSED certification exam)	-	
WorkStudy 7761 and 7781	1	

### Fashion Design Pathway

Fashion Design Fathway	
English 9	Fashion Course Descriptions
US History	Clothing and Textile/Interior Design - CRS 7621 @1.0
Algebra 1	Main Campus- The content of this course includes the cultural and historical aspects
Liv. Env. or Earth Science (Lab)	of textiles and clothing, personal appearance, the design, construction and selection
Phys. Ed.(Opposite Science Lab)	of clothing and related career opportunities. Students will learn basic pattern use and sewing machine skills. Students will learn the elements and principles of design and
Foreign Language	how to use color. The content of this course studies housing history and current
Clothing Textile/Inter. Design 7621	trends in interior design. <b>Prerequisites</b> : None
	<b>Course Requirements</b> : The completion of one clothing project. The purchase of
English 10	patterns and notions is required by the student.
Global I	Clothing Construction - CRS 7631/7632 2 Periods 🖉 2.0
Geometry	Main Campus- This course allows students to explore designs of clothing to create a
Liv. Env. or Earth Science (Lab)	clothing line. All facets of promoting a clothing line are researched and explored.
Phys. Ed.(Opposite Science Lab)	Implementation of sewing line techniques will produce a full clothing line to be evaluated and graded by the teacher. Completed clothing lines will be presented
Health	during a runway fashion show during the school year.
Clothing Textile/Inter. Design 7621	Prerequisites: Clothing, and Textile Design
	<b>Course Requirements</b> : Portfolio and final exam and project. Successful completion of a clothing line. The student must purchase patterns, fabric, and notions.
English 11	
Global II	Advanced Clothing Construction - CRS 7641 🛛 🛷 1.0
Algebra II	Main Campus- This course is a continuation of clothing construction. Students are
Phys. Education (Opposite Sci. Lab)	required to demonstrate independent efforts to create a larger and more detailed clothing line then done in Clothing Construction. Students in this level course will
Chemistry (or Sci. Elective)	learn to play a leadership role in the production and running of the Newburgh Free
Clothing Construction 7631 (2	Academy fashion show. <b>Prerequisites</b> : Clothing Construction
Periods)	<b>Course Requirements</b> : Portfolio and final examination/project, successful
Clothing Construction 7632 Lab	completion of a three-piece clothing line. The students must purchase patterns,
	fabric and notions.
English 12	Work Study CRS 7761 & 7781 Ø 0.5 & 1.0
Government/Economics	Mentor/Mirror/ Job shadow professionals in the field.
Physical Education	Make connections for YOUR SUCCESSFUL Career in the Food Industry.
Advanced Clothing Construction 7641 (eligible for NYSED certification exam)	<b>Course Requirements</b> : Students will be required to prepare a project and do a presentation at the end of this course.
	*NYSED APPROVED PROGRAM ** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway *** Articulation Agreement with Bryant and Stratton

# Health Science Education Pathway Overview

Healthcare is the largest and fastest-growing industry in the United States and is one of the largest employment areas within the Hudson Valley.

NFA Health Science/ NYS Nurse Aide Certification Pathway offers High Quality Career and Technical Education. The NFA Nurse Aide program is a NYS Career and Technical Model Program as recognized and awarded by NYS Department of Education. While enrolled In the Health Science Career Cluster, you will prepare for a career that promotes health, wellness, diagnosis, and treat injuries and diseases. Students in the health science education pathway learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

Health Science Education Pathway is a program of interest for the student who is considering a professional career in any of the following professional disciplines: Nurse Aide, Home Health Aide, Licensed Practical Nurse, Registered Nurse, Phlebotomist, Medical Tech/Assisting, Pharmacist, and more.

NFA Health Science pathway will provide students with a competitive edge to be the better candidate for either entry into the global healthcare marketplace and the post-secondary institution of their choice to continue their education and training in a Healthcare/Medical Profession. Students become leaders through aligned curriculum and participation in our Student- Centered Organization HOSA- Future Healthcare Professionals.

#### Recommended Academic Alignment for all students in Health Science Pathway:

Science: Living Environment, Chemistry, Anatomy, and Physiology, Biology/Microbiology

Math: Algebra, Medical Math, Prob. & Stat

Students considering post-secondary education in Healthcare/Medical programs education will need to have strong Math, English/Writing, Science skills.

#### Required Health Science Career Pathway courses: (course descriptions on following pages)

- Health Science Core- 1 (10th grade)
- Health Science Core- 2 (11th grade)
- Health Science Core- 3 (12th grade)

#### Certification Opportunities for students completing this pathway:

- American Heart Association Basic Life Support for Healthcare Providers
- American Heart Association HeartSaver CPR/AED
- American Heart Association First Aid
- NYS Nurse Aide Certification

#### \*NYSED APPROVED PROGRAM

\*\* NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway

\*\*\* Articulation Agreement with Bryant and Stratton and Monroe College

Health Science Career Multiple	Program at NFA North Campus Health Science Career Pathway	
Pathway		
English 9	Health Science Core 1 - CRS 7001	Ø .75 CTE & 0.25 H
US History	.25 Health credit is only approved for NFA No	
Algebra 1	This is the first of many courses offered to st	
Liv. Env. or Earth Science (Lab)	the healthcare field. During this first course,	
Phys. Ed.(Opposite Science Lab)	<ul> <li>history, careers, law and ethics, cultural diversion infection control, professionalism, communic</li> </ul>	
Foreign Language	healthcare facilities.	
Required Art Credit	Prerequisites: None	
	Course Requirement: Students must have 8 *Students that are eligible for the Practical N	
English 10	including TABE/TEAS exam, Interview, Essay,	
Global I		
Geometry	Health Science Core 2 - CRS 7011	Ø .75 CTE & 0.25 H
Liv. Env. or Earth Science (Lab)	.25 Health credit is only approved for NFA No	
Phys. Ed.(Opposite Science Lab)	As students continue their journey into Alliec Introduction to Health care and expand on th	
Health	healthcare profession. Anatomy, disease pro	
Health Science Core 1- 7001	at this level to begin their clinical rotation. St	
	both in a clinical lab within the classroom and Students will learn about infection control, "T	
	become more familiar with OSHA, HIPAA, and	
English 11	vital signs, record them and learn what the d	-
Global II	foundation for further advancement in Healt <b>Prerequisites</b> : 80 % or higher in CRS 775, g	
Algebra II	recommendation.	ood attendance, and teacher
Phys. Education (Opposite Sci. Lab)	<b>Course Requirements:</b> Required to have a	
Chemistry (or Sci. Elective)	record for this course. During clinical rotatio	
Human Anatomy 5052	*Students must have an 80% or higher to en	i oli ili Alleu Healti Science z
Health Science Core 2- 7011	Health Science Core 3 - CRS 7021/7022	2 to 4 periods 🥔 2.0
	Students will work to be First Aid and CPR ce	·
English 12	healthcare experience outside of the classroo	
Government/Economics	hours, and clinical placement hours required completion of the nurse aide training and reg	
Physical Education	<b>Prerequisites</b> : Required to have an 80% sco	
Medical Math 3521	teacher recommendation in course 7001 & 7	
Methods in Medical Technology	<ul> <li>Course Requirements: Recent physical and During clinical rotation, students must wear</li> </ul>	
7021	poster in collaboration with the Mount Saint	•
Health Science Core 3- 7021	program.	
(2 Periods) (eligible for NYSED certification exam)	Certification Opportunities possible for stude • American Heart Association Basic Life Supp	
Health Science Core 3 7022 Lab	• American Heart Association Basic Life Supp     •NYS Nurse Aide Certification	or for freath care Fronuels
Thearth Science Core 5 7022 Lab		

# Junior Reserve Officer Training Corps, Air Force

The fundamental purpose of the Air Force Junior Reserve Officer Training Corps (AFJROTC) is to build citizens of character dedicated to serving their nation and community. The program is governed by the U.S. Air Force, and the citizenship training is conducted under the framework of an aerospace science program designed for high school students. It will acquaint students with the Air Force and aerospace environment, promote leadership skills, develop communications skills and encourage physical fitness.

The curriculum is divided into a four-year program, with students earning one academic credit for each year of JROTC they complete. There is no minimum number of years a student must remain in JROTC, but motivated students gain rank and increased responsibility with each additional year, so the students that remain the longest get the most benefit. (Note: AFJROTC is not a military recruitment program, and there is no military obligation for participating. However, wear of the Air Force uniform, one day per week, is a mandatory part of the program.)

The AFJROTC program consists of three components: Aerospace Science, Leadership Education, and Wellness (i.e., physical training and healthy living).

Aerospace Science (AS). The academic portion of the program consists of several courses listed below. It acquaints students with the history of aviation as well as the current aerospace environment. It introduces aircraft and spacecraft technology, principles of flight, human requirements of flight, earth's atmosphere and the space program. Other courses focus on global awareness or survival.

Leadership Education (LE). The leadership portion of the curriculum is designed to develop leadership skills and acquaint students with the practical application of life skills. It emphasizes discipline, responsibility, leadership, followership, citizenship, customs and courtesies, cadet corps activities, study habits, time management, communication skills, and drill and ceremonies. Wellness Program. This part of the program consists of participation in physical fitness activities, as well as training in first aid, health, and nutrition. The objective is to motivate cadets to lead healthy, active lifestyles.

The following are the AFJROTC courses offered at NFA and the projected schedule for the next four school years:

- AS-100: Milestones in Aviation History
- AS-200: Science of Flight: A Gateway to New Horizons
- AS-220: Cultural Studies: (An Introduction to Global Awareness)
- AS-300: Exploring Space: The High Frontier
- AS-410: Survival: Survive and Return
- LE-100: Traditions, Wellness, and Foundations of Citizenship
- LE-200: Communication, Awareness, and Leadership
- LE-300: Life Skills and Career Opportunities
- LE-400: Fundamentals of Management
- LE-500: Drill and Ceremonies

Cadet Year	2020/2021	2021/2022	2022/2023	2023/2024
1/2/3/4	AS-300 Ch 2-8 LE-100 Ch 1-4	AS-220 Ch 1-4, 6 LE-100 Ch 1 (Lsn 1-5) LE-200 Ch 1,2,5-8	AS-100 Ch 1,2,4-6 LE-100 Ch 1 (Lsn 1-5) LE-300 Ch 3-8	AS-200 Ch 1-4 LE-100 Ch 1 (Lsn 1-5) LE-400 Ch 1,3-8,10

Education, and Wellness Pathway	Course Descriptions		
	AEROSPACE EDUCATION 1 (9, 10, 11, 12) - CRS 7341		
English 9	Both Campuses -This Academic and Leadership Education course will follow the		
US History	schedule above. All cadets will receive the same course of instruction for a particul year. At a minimum, field trips will be made to the West Point Confidence Course a to a regional park to participate in an orienteering competition. Other field trips to military establishments or civilian institutions associated with flying are a possibility.		
Algebra 1			
Liv. Env. or Earth Science (Lab)	There will be ample opportunities to participate in leadership situations. Cadets may		
Phys. Ed.(Opposite Science Lab)	join the competition drill team on a voluntary basis. <b>Prerequisites</b> : Be at least in the 9th grade, and a legal resident of the United States.		
Foreign Language	<b>Course Requirements</b> : Completion of, and passing grades in, academic and leadership assignments. Wearing of the uniform once per week and participation in		
Aerospace Education 1 7341	fitness activities, the Annual Military Ball, Commander's Call, Annual Awards Ceremony and one of three local parades.		
English 10	AEROSPACE EDUCATION 2 (10, 11, 12) - CRS 7351 Ø 1.0		
Global I	Both Campuses -This Academic and Leadership Education course will follow the schedule above. All cadets will receive the same course of instruction for a particular		
Geometry	year. At a minimum, field trips will be made to the West Point Confidence Course and		
Liv. Env. or Earth Science (Lab)	to a regional park to participate in an orienteering competition. Other field trips to military establishments or civilian institutions associated with flying are a possibility.		
Phys. Ed.(Opposite Science Lab)	There will be many opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.		
Health	Prerequisites: Successful completion of Aerospace Science 1 and recommendation		
	by the Aerospace Science Instructors. Course Requirements: Same as course 940		
Aerospace Education 2 7351			
Studio Art	AEROSPACE EDUCATION 3 (11, 12) - CRS 7361		
	schedule above. All cadets will receive the same course of instruction for a particular		
English 11	year. At a minimum, field trips will be made to the West Point Confidence Course and to a regional park to participate in an orienteering competition. Other field trips to		
Global II	military establishments or civilian institutions associated with flying are a possibility.		
Algebra II	There will be ample opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.		
Phys. Education (Opposite Sci. Lab)	<b>Prerequisites</b> : Successful completion of Aerospace Science 2 and recommendation by Aerospace Science Instructors.		
Chemistry (or Sci. Elective)	Course Requirements: Same as Course 940		
Aerospace Education 3 7361	AEROSPACE EDUCATION 4 (12) - CRS 7371 🖉 1.0		
	Both Campuses -This Academic and Leadership Education course will follow the schedule above. All cadets will receive the same course of instruction for a particular		
English 12	year. At a minimum, field trips will be made to the West Point Confidence Course and		
Government/Economics	to a regional park to participate in an orienteering competition. Other field trips to military establishments or civilian institutions associated with flying are a possibility.		
Physical Education	There will be ample opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.		
Aerospace Education 4 7371	<ul> <li>Prerequisites: Successful completion of Aerospace Science 3 and recommendation by Aerospace Science Instructors.</li> <li>Course Requirements: Same as Course 940</li> </ul>		

Aerospace Science, Leadership Education, and Wellness

Aerospace Science, Leadership

Nutrition Pathway	Nutrition Course Pathway	
English 9	Principles of Nutrition and Wellness – 922 1.0	
US History	Nutrition and Wellness is an applied laboratory-based course designed to educate students about food preparation and the functional components of foods. Studen also learn about food safety, sanitation, and students complete the industry	
Algebra 1		
Liv. Env. or Earth Science (Lab)	recognized Food Handlers Certificate. Through an examination of food labels, dietary guidelines, meal planning, and dietary analysis, students become aware of	
Phys. Ed.(Opposite Science Lab)	practical techniques of maintaining and improving health. The course also explores the role of food in respect to it its historical, social, environmental context through	
Foreign Language	the preparation of Regional Foods of the United States. Prerequisites: None	
Studio Art	Course Requirements: Participation in hands on activities and completion of assignments	
English 10	Meditation– CRS 7571 0.5	
Global I	Focuses on intentionally training a person's attention and concentration. Meditation	
Geometry	practices have been used by cultures around the world for thousands of years. In this certificate program, you will explore the many meditation techniques that can be	
Liv. Env. or Earth Science (Lab)	used to support the mind-body connection and promote healing and wellness. This course will guide you as you discover how the practice of meditation can be used to	
Phys. Ed.(Opposite Science Lab)	increase mindfulness, reduce stress, deal with pain and illness, and support overall well-being. Prerequisites: None Course Requirements: Participation in hands on	
Health	activities and completion of assignments	
Principles of Nutrition and Wellness	Nutritional Management – 923       1.0         Nutritional Management provides an in-depth study of nutrition and how it affects the human body. Topics include extensive study of major nutrients, nutrition/food	
English 11	choice influences, technological and scientific influences, special diets, and career exploration in this field. Attention will be given to nutrition, menu planning,	
Global II	industry-based food safety, and sanitation. Laboratory experiences will be utilized to develop food handling and preparation skills. Nutritional Management is geared	
Algebra II	toward students interested in careers involving dietetics, education and health and	
Phys. Education (Opposite Sci. Lab)	wellness related fields. Prerequisites: Principles of Nutrition and Wellness	
Chemistry (or Sci. Elective)	Course Requirements: Participation in hands on activities and completion of assignments	
Nutritional Management		
	Nutrition Science and Diet Therapy – 9241.0Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for	
English 12	students interested in the role of nutrition in health and disease. Upon completion of this course, proficient students will be able to develop a nutrition care plan as part of	
Government/Economics	the overall healthcare process, use methods for analyzing the nutritional health of a	
Physical Education	community, and understand the relationship of diet and nutrition, homeopathic to specific diseases. The course emphasizes the role of diet as a contributor to disease	
Nutrition Science and Diet Therapy Workstudy -7761 and 7781	and its role in the prevention and treatment of disease. Prerequisites: Nutritional Management Course Requirements: Participation in hands on activities and completion of assignments	

Photography Pathway	Photography Course Descriptions	
English 9	Photography 1 - CRS 6071 Ø1.0	
US History	Main Campus - Designed for beginning and advanced students, this program is a	
Algebra 1	<ul> <li>rigorous combination of technical, aesthetic and historical presentations, digital a darkroom work, studies in photographic composition, critical group discussions a</li> </ul>	
Liv. Env. or Earth Science (Lab)	written responses to readings, lectures, and gallery visits. In addition to the digital camera and editing concepts, students will be introduced to film photography,	
Phys. Ed.(Opposite Science Lab)	darkroom printing, and scanning of film images for manipulation in the digital editing format. Students will learn about digital printing and preparation of work for display.	
Foreign Language	Photography students will have created a portfolio of work that can be used to presen	
Digital Studio Art 6011	for post-high school studies and career opportunities. <b>Prerequisites</b> : Digital Studio in Art, Studio in Art, Visual Communications & Design I <b>Course Requirements</b> : Participation in class work, homework, and class discussions. Creation of a photographic portfolio.	
English 10		
Global I	Photography 2 - CRS 6081Ø 1.0Main Campus - This course explores advanced photographic procedures and	
Geometry	techniques. Continuation of aesthetic concepts in photographic composition, stud	
Liv. Env. or Earth Science (Lab)	will learn advanced digital camera work and Photoshop editing techniques Delving deeper into darkroom film photography, students will work with alternative films and	
Phys. Ed.(Opposite Science Lab)	camera formats. Research and written component involving documentary photography history and practicum. An independent portfolio of thematic work w	
Health	created over the course of the school year to expand subject matter choices and composition approaches.	
Photography 1- 6071	<b>Pre-requisites</b> : CRS 6071 Photography 1 <b>Course Requirements</b> : Participation in class work, homework and class discussions. Independent work and research project. Creation of a photographic portfolio.	
English 11	Photography 3 - CRS 6181 Ø 1.0	
Global II	Main Campus - his course further expands the knowledge and techniques in	
Algebra II	advanced B&W darkroom photography and digital photography. You will work with medium and large format film cameras in this class. Alternative types of film,	
Phys. Education (Opposite Sci. Lab)	developing, printing and chemical processes will be explored. Creative techniques will be explored using Photoshop software. We will examine the work of contemporary	
Chemistry (or Sci. Elective)	photographers and incorporate their ideas and techniques into our own work. Work on independent themes are emphasized as well as creation of a senior portfolio of	
Photography 2- 6081	prints. You will create your own photographic based website using Wix Sites. Work will	
	be submitted for display in the photo exhibition in the NFA Art Gallery. <b>Prerequisites</b> : CRS 6081 Photography 2	
English 12	<b>Course Requirements</b> : Participation in class work, class discussions. Independent work and research project. Creation of college level photographic portfolio.	
Government/Economics		
Physical Education	Work StudyCRS 7761 & 7781Ø 0.5 & 1.0Mentor/Mirror/ Job shadow professionals in the field.	
Photography 3- 6091 Workstudy 7761 and 7781	Make connections for YOUR SUCCESSFUL Career in the Food Industry. <b>Course Requirements</b> : Students will be required to prepare a project and do a presentation at the end of this course.	

\*\*\* Articulation Agreement with Bryant and Stratton and Monroe College

	Video Production Course Descriptions	
English 9	Video Production - CRS 7901	
US History	Both Campuses - This course explores elementary video production principles, practice, and operation. Emphasis is placed on the laboratory elements of script	
Algebra 1	lighting, audio, camera, switching, character generator and Chroma key. Students	
Liv. Env. or Earth Science (Lab)	will also study a variety of media, art styles, and artists. Students use image editing, compositing, animation, and digital drawing to put into practice the art principles	
Phys. Ed.(Opposite Science Lab)	discussed in the program. Practical experience in producing video projects will be reviewed.	
Foreign Language	Prerequisites: None Course Requirements: Completion of all class assignments and tests	
Required Art Credit		
	Advanced Video Production - CRS 79112 periods	
English 10	practice and operation. Emphasis is placed on producing video projects for use on	
Global I	Goldback TV presentations.  Prerequisites: CRS 7901 - Video Production	
Geometry	<b>Course Requirements:</b> Completion of all class assignments, projects and tests.	
Liv. Env. or Earth Science (Lab)	WorkStudy - CRS 7761 & 7781 Ø 0.5 & 1.0	
Phys. Ed.(Opposite Science Lab)	Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR SUCCESSFUL Career in your area of study.	
Health	<b>Course Requirements</b> : Students will be required to prepare a project and do a presentation at the end of the course.	
Video Production 7901		
English 11		
Global II		
Algebra II		
Phys. Ed.(Opposite Science Lab)		
Chemistry (or Sci. Elective)		
Advanced Video Production 7911		
English 12		
Government/Economics	1	
Physical Education	1	
WorkStudy 7761 & 7781	1	

### Art Design and Visual Communications Multiple Pathways (Continued)

### Visual Communications/Graphics Course Descriptions

English 9	Visual Communications & Design I - CRS 6041 Ø	
US History	Main Campus - This foundation course is the entry-level experience in the Vis Com	
Algebra 1	<ul><li>sequence where the fundamentals of design are introduced</li><li>•What is design? •Why does man create?</li></ul>	
Liv. Env. or Earth Science (Lab)	•How do designers create? •How does creativity work? •Can I improve my creativity?	
Phys. Ed.(Opposite Science Lab)	The focus on these vital questions sets the stage for a journey onto the student	
Foreign Language	designers road ahead. Traditional beginnings in project work are the focus as the student transitions from tools that are traditional to tools that are digital.	
Visual Communications Design I 6041	Basic fundamental and intermediate skills in Adobe Photoshop and InDesign are taught from a tutorial perspective, which builds on small steps to increase skill at a deeper level.	
Digital Studio Art 6011	Prerequisites: None	
	<b>Course Requirements:</b> Sketchbook and portfolio including projects, research, and a final evaluation.	
English 10		
Global I	Visual Communications & Design II - CRS 6051           I.0        Main Campus - This intermediate course builds on the successes established in Vis	
Geometry	Com I. Creativity takes a level of commitment. It is in this regard that the overarching	
Liv. Env. or Earth Science (Lab)	focus of 'being a designer's furthered. Harnessing the creative process, time management, and making deadlines is further supported along with tackling	
Phys. Ed.(Opposite Science Lab)	higher-order design projects. Adobe Illustrator is introduced as well. Along with increasing the skill level in using Adobe Photoshop and InDesign, Illustrator rounds out	
Health	the student designers options in their quest to arrive at the best design answers. Careers in this field are also discussed as well as portfolio preparation for post-high	
Visual Communications Design II 6051	school educational paths.  Prerequisites: Visual Communications & Design 1	
0051	<b>Course Requirements</b> : Additionally, students are required to maintain a sketchbook, folder, and portfolio; as well as attend various field experiences.	
English 11		
Global II	Visual Communications & Design III - CRS 6061	
Algebra II	design classes that deliver marketable skills and/or collegiate preparation for a career in creative media. This course is on the books as Vis Com 3, but we are collectively	
Phys. Education (Opposite Sci. Lab)	known as 'The Fullerton Crew.' Our mission statement: "The Fullerton Crew is a	
Chemistry (or Sci. Elective)	student-driven design firm whose primary focus is meeting design needs from across the varied groups in this community. "We specialize in	
Visual Communications Design III 6061	•branding/logo design •flyers/brochures/banners Understanding the dynamic of the client/designer relationship is also articulated and supported. These students take this task seriously as they set about to meet	
	design needs and put their skills to the test! Application of their skill and the interpersonal experiences of a designer-client relationship is fostered to enrich this	
English 12	upper-level design experience. <b>Prerequisites</b> : Visual Communications & Design 1 and 2	
Government/Economics	<b>Course Requirements</b> : Portfolio generation (online & traditional) will be addressed as	
Physical Education	well for those students who see themselves furthering this endeavor beyond NFA.	
AP Studio 6931		
	•	

Welding Pathway	Welding Course Descriptions	
English 9	Basic Welding - CRS 7501	
US History	Main Campus - This course provides a general knowledge of basic principles and	
Algebra 1	<ul> <li>procedures used in the welding trade. The student is introduced to oxyacetylene,</li> <li>MIG, TIG, electric arc welding and plasma cutting. This course is helpful to the</li> </ul>	
Liv. Env. or Earth Science (Lab)	student who intends to enter the welding, auto mechanic, and auto body field. Prerequisites: None	
Phys. Ed.(Opposite Science Lab)	<b>Course Requirements:</b> Completion of assignments. Students must provide leather work boots	
Foreign Language	–	
Required Art Credit	Welding 1 - CRS 7511/75122 Periods	
	welding as a career. The course will include related theory and "hands-on" skills in	
English 10	oxyacetylene, electric arc, and metal inert gas "MIG" welding. Students will be introduced to the different welding positions. Welding proficiency will be gained with	
Global I	programmed practice skills and project construction. Prerequisites: CRS. 729	
Geometry	<b>Course Requirements:</b> Students must provide suitable work clothes and safety-type shoes. Completion of assignments.	
Liv. Env. or Earth Science (Lab)		
Phys. Ed.(Opposite Science Lab)	Welding 2 - CRS 7513/75142 Periods	
Health	its relationship to welding. Students will gain advanced skills in oxyacetylene, electri arc "MIG" and "TIG" welding. All welding positions are covered: flat, horizontal,	
Basic Welding 7501	vertical and overhead. Students may be eligible to take the NYSDOT Welding test.	
	Prerequisites:         CRS- 712- Welding 1           Course Requirements:         Students must provide suitable work clothes and work	
English 11	shoes/boots. Completion of assignments.	
Global II	WorkStudy - CRS 7761 & 7781 Ø 0.5 & 1.0	
Algebra II	Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR SUCCESSFUL Career in your area of study.	
Phys. Education (Opposite Sci. Lab)	Prerequisites: CRS 729 Course Requirements: Students will be required to prepare a project and due at the	
Chemistry (or Sci. Elective)	end of the course.	
Welding I 7511 (2 Periods)		
Welding I Lab 7512		
English 12	*NYSED APPROVED PROGRAM	
Government/Economics	** NYS CTE PATHWAY with Technical Assessment/NYS CDOS Pathway	
Physical Education	*** Articulation Agreement with SUNY Delhi and Alfred State College	
Welding II 7513 (2 Periods)		
Welding II Lab 7514	-	
WorkStudy 7761 & 7781	7	
76		

# Third Unit Options

Third Unit Options- Using Technology Education Courses as the Third Unit of Math or Science under the Revised Graduation Requirements

- In March of 1998, a committee composed of math, science and technology stakeholders met with State Education Department personnel to discuss criteria for a course that could be used in the third unit of math or science under the revised graduation requirements.
- The criteria of this third unit are only to be used after the student has completed the first two units in math or science.
- Students under regulations can only take one of the courses to count for their graduation requirements.

### World of Technology Math - CRS 7181

@1.0

Both Campuses - This course is designed to be used for the third unit of math under the revised graduation requirements. Learning experiences designed for the course emphasize problem-solving and critical thinking utilizing acquired math skills in a technology context and real-world application. Students will have to use system approaches requiring data analysis and mathematical modeling. Projects may include small woodcrafts, electronics, and problem-solving activities. Students may need to bring in small supplies for personal touches of projects.

**Prerequisites**: Successful completion of two Math level courses before enrollment.

**Course Requirements:** Completion of all assignments, projects, and tests Note: Open to 10th-grade students by permission of Director only.

World of Technology Science - CRS 7191 @ 1.0

Both Campuses - This course is designed to be used for the third unit of science under the revised graduation requirements. Learning experiences designed for the course emphasize problem-solving and critical thinking utilizing acquired science skills in a technology context and real-world application. Students will have to use system approaches requiring data analysis and applied scientific principles and laws of nature. Projects may include small woodcrafts, electronics, and problem-solving activities. Students may need to bring in small supplies for personal touches of projects.

**Prerequisites**: Successful completion of two Science level courses prior to enrollment.

**Course Requirements**: Completion of all assignments, projects, and tests Note: Open to 10th-grade students by permission of Director only.

## North Elective Courses

### Child Development - CRS 7271

@ 1.0

@ 1.0

Child Development is a great place to grow! Real life skills elective open to all students, especially beneficial for those in a Home Health Career Path. Education in a nurturing environment, fostering creativity and some hands-on experiences. Become competent exploring pregnancy, infants, childhood, parenting and related careers.

### Prerequisites: None

**Course Requirements**: Make a toy for a child and completion of assignments

### Introduction to Food - CRS 7201

An introductory kitchen course that combines academics with hands-on cooking. Students will become familiar with nutrition topics, ingredients, a variety of cooking techniques and skills, tools, and they will learn the importance of safety and sanitation. Students will become confident in kitchen management and explore foods, as they practice cooking and baking with their peers.

### Prerequisites: None

Course Requirements: Completion of reading/written assignments, and active participation in all aspects of lab experiences.

### Human Development - CRS 7261

@1.0

Build better relationships. Develop ways to handle stress. Explore personal growth and goals. Discover Leadership through Awareness! **Prerequisite**: None

**Course Requirements**: Completion of all class assignments, projects and tests.

# Studio Art Courses

The following course can be used for the required studio art credit for graduation.

@1.0

### Clothing and Textile/Intern Design - CRS 7621

Main Campus- The content of this course includes the cultural and historical aspects of textiles and clothing, personal appearance, the design, construction and selection of clothing and related career opportunities. Students will learn basic pattern use and sewing machine skills. Students will learn the elements and principles of design and how to use color. The content of this course studies housing history and current trends in interior design.

#### Prerequisites: None

**Course Requirements**: The completion of one clothing project and the purchase of patterns and notions needed to complete their garment.

### Design and Drawing for Production - CRS 7661 @ 1.0

The Design and Drawing for Production (DDP), course of study, are focused on technical drawing techniques, the different styles of drafting, and promote creative problem solving through design. Projects will be centered on a variety of drawing styles, the design process, 3-dimensional modeling skills using AutoCAD, and model making. Assignments will include all forms of technical drawing and presentations. Students who plan to enter into the architectural field, engineering design or other technical studies should consider this fundamental course as early as possible.

Prerequisites: None

### Digital Studio in Art - CRS 6011

@1.0

Main Campus- In this class, students will study a variety of media, art styles, and artists. Students use image editing, compositing, animation, and digital drawing to put into practice the art principles discussed in the program. They explore career opportunities in the design, production, display, and presentation of digital artwork.

#### Pre-requisites: None

**Course Requirements**: Completion of projects, work process, and portfolio

### Studio in Art - CRS 6001

@1.0

Both Campuses - As a Drawing and Painting foundation course in this department, Studio in Art introduces students to a variety of concepts, skills, and techniques necessary for successful visual expression. Many different media will be used in areas of exploration and experimentation. Students will learn to analyze their work, study important works of art and participate in discussions about art.

#### Prerequisites: None

**Course Requirements**: Completion of projects, work process, and portfolio

### Visual Communications & Design 1 - CRS 6041 @ 1.0

Main Campus - This is a foundation course for students who are motivated toward study in advertising and graphic design. To be successful in advertising, you have to understand the creative process and how words and pictures connect. Using contemporary media similar to that used by professionals, students will engage in process-oriented projects like generating print ads. An introduction to computer graphics, desktop publishing, storyboards for television and radio spot ads makes this course the choice for students looking for a future in the communications field.

#### Prerequisites: None

**Course Requirements**: Sketchbook and portfolio including projects, research, and a final evaluation.

@1.0

### Video Production - CRS 7901

Both Campuses - This course explores elementary video production principles, practice, and operation. Emphasis is placed on the laboratory elements of scripting, lighting, audio, camera, switching, character generator and Chroma key. Students will also study a variety of media, art styles, and artists. Students use image editing, compositing, animation, and digital drawing to put into practice the art principles discussed in the program. Practical experience in producing video projects will be reviewed.

Prerequisites: None

Course Requirements: Completion of all class assignments and tests

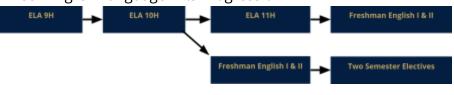
# P-TECH (NFA North)

### **Computer Science and Coding Pathway**

English 9	
US History	
Algebra 1	
Environmental Science	
Physical Education	
Exploring Computer Scie	ence
Required Art Credit	
English 10	
Global I	
Geometry/ College Math	n Course
Earth Science (Lab)	
Physical Education (Opp	oosite Sci. Lab)
College Success and Car	reer Planning
English 11	
Global II	
College Math / Pre-Colle	ege Algebra
Phys. Education (Oppos	ite Sci. Lab)
Chemistry (or Sci. Electiv	/e)
English Electives/ Freshr	man English
Government/Economics	5
Physical Education	
In addition to the cour above, students will ta Orange in 10th, 11th, a are aligned to either th Orbor Socurity	ake courses at SUNY and 12th grade that
Cyber Security degree	

P-Tech at NFA North is a new model for teaching and learning that brings together high school, college, and the world of work in order to prepare students for the complex and ever-changing global workforce in information technology. Students in P-Tech graduate with an Associate's in Applied Science degree in Cybersecurity from SUNY Orange, in addition to their high school diploma. They also obtain the skills and knowledge they need to continue their studies or step seamlessly into well-paying, high-potential jobs in the Computer Information Technology industry. P-Tech offers project-based learning experiences and real-world applications of science, technology, engineering, and math. Students will develop important academic and career skills as they learn through projects developed in collaboration with IBM. Due to the accelerated pace of learning in P-Tech, the length of the school day and the school year is longer for enrolled students.

### -Tech English Language Arts Progression



### College and Career Planning - CRS 080T

College Success and Career Planning (10, 11, 12) This course taken for 3 college credits

P-Tech - This is an interdisciplinary course designed to assist the student in making the transition to college, to promote the development of a successful college experience and to improve self-awareness and knowledge of the career decision-making process. Topics include self-exploration, career and career theory study, decision-making skills, information gathering from library and community resources, and the skills required for success in higher education and in career. Lectures, films, individual and group exercises, reading and writing assignments will be used to provide students with an in-depth college and career planning experience. **Prerequisites**: Successful completion of year 1 coursework and P-Tech committee recommendation.

### reshman English 1 (11, 12) - CRS 081T

### his course taken for 3 college credits

-Tech - This first course in the Freshman English sequence introduces college-level riting and revision, construction of expository essays, and research skills. Reading nd class discussion center on the formal and informal essay. Research essay is equired.

**Prerequisites**: Successful completion of English 9 and 10 as well as appropriate score on SUNY Orange placement test in both reading and writing.

### reshman English 2 (11, 12) - CRS 082T

@ 0.5

@ 0.5

This course taken for 3 college credits

P-Tech - In this second course in the sequence, students learn to read critically, to organize supporting details, and to develop coherent oral and written arguments. Fiction, drama and poetry are used as common texts. An analytical research paper is required.

rerequisites: A grade of C or better in Freshman English 1

### Intermediate Algebra (10, 11, 12) - CRS 3203T

#### This course taken for 3 college credits

P-Tech - Topics covered: absolute value equations and inequalities, additional factoring techniques, radical expressions, complex numbers, quadratic equations, functions, graphing techniques, coordinate geometry, mathematical modeling, applications and problem solving.

Prerequisite: An appropriate score on SUNY Orange placement test.

### College Algebra (10, 11, 12) - CRS 3200T

Ø 0.5

@ 1.0

This course taken for 3 college credits

P-Tech - Topics include: a thorough treatment of the concept of functions and their graphs, linear and quadratic functions, polynomial and rational functions, inverse functions, exponential and logarithmic functions and conic sections.

**Prerequisite**: A grade of C or better in Intermediate Algebra or appropriate score on SUNY Orange placement test.

### College Trigonometry (10, 11, 12) - CRS 3201T

@0.5

This course is taken for 3 college credits. College Trigonometry is the second course for students who plan to continue on toward the study of Calculus. Topics include trigonometric functions, graphing techniques, right triangle applications, trigonometric identities, inverse functions, and oblique triangles. **Prerequisite**: A grade of C or better in College Algebra.

# Cyber Security

Computer Information Technology Cyber Security	Credits
First Semester	
ENG 101 Freshman English 1	3
MAT 121 College Algebra	3
CRJ 101 Intro to Criminal Justice	3
CIT 100 Computer Literacy	3
CIT 105 Data Communications and	3
Introduction to Networking	3
PES Physical Education	1
Second Semester	
ENG 102 Freshman English 2	3
CIT 116 Networking 1	4
CIT 112 Computer Hardware and Software	4
CIT 118 Operating Systems	4
Third Semester	
CIT 203 Networking 2	4
CIT 217 Introduction to Unix/Linux	4
CFR 221 Computer Forensics	3
CSS 223 Information Security	3
PSY Psychology	3
PES Physical Education	1
Fourth Semester	
Fourth Semester CFR 222 Network Forensics	3
	3 3
CFR 222 Network Forensics CSS 224 Network Perimeter	
CFR 222 Network Forensics CSS 224 Network Perimeter Security CSS 226 Cyber Crime	3
CFR 222 Network Forensics CSS 224 Network Perimeter Security CSS 226 Cyber Crime Investigations	3

### **Program Description**

The Associate in Applied Science degree program in Cyber Security prepares students for employment in a variety of entry level careers in Cyber Security. Today, everyone is concerned with security, and people with knowledge in this area are in high demand. Positions can include such titles as Network Administrator, network security specialist, information security technician, just to name a few. The main thrust is protection of information and limiting access to network resources. In addition to security, students will also be instructed in techniques used to track perpetrators once an attack has occurred.

In addition to basic computer and networking skills, the student will be instructed in Operating Systems, Computer Forensics, Network Forensics, Information Security, Network Perimeter Security, and

Cyber Crime Investigation.

Classes are designed to provide students with hands-on training utilizing state-of-the-art computer facilities. Lab work and assignments will present real world cyber security scenarios encountered in the work place. For forensics studies, industry standard software will be used.

While A.A.S. graduates are prepared to enter the workforce immediately, many students choose to transfer to upper-level programs leading to a bachelor's degree in technology.

### **Student Learning Objectives**

Students will:

- Develop basic network administration skills
- Perform computer forensic analysis
- Demonstrate an understanding of network forensics
- Develop an understanding of the legal issues associated with cyber security
- Document an appropriate procedure of handling case evidence

# Teacher Preparation Academy & SMART Scholar Early College Teaching Pathway

### **Program Description**

The Teacher Preparation Academy aims to inspire and prepare students to enter the teaching profession. The goal of the Teacher Preparation Academy is to expose students to the teaching profession, building a pathway for students to pursue teacher education studies at the college level, and in the long term, for students to become part of our NECSD faculty and staff.

In the SMART Scholar Early College Teaching Pathway program, scholars can earn up to 25 college credits in partnership with SUNY Orange and Mount Saint Mary College

The goals of the program are to:

- Inspire and develop the next generation of educators, many who will graduate with the NYS Seal of Biliteracy and/or the Seal of Civic Readiness
- Build an "education pathway" that engages high school students (including those who speak more than one language) in teacher education preparation beginning in the 9th grade
- Cultivate the knowledge, skills, and dispositions needed for students to be successful future educators
- Offer high-quality instruction, as well as exposure and experience working in a classroom setting, so that students leave high school well-prepared and inspired to enter an undergraduate teacher preparation program
- Provide additional opportunities for our NECSD students to gain college credit while still in high school
- Provide support for students' transition to higher education and entry into a post-secondary teacher education program leading to a teaching credential at the elementary, intermediate or secondary level (including Bilingual, TESOL, and/or Spanish Certifications).
- Build district capacity to better serve our NECSD student population; including Teaching Assistants

### The Teacher Preparation Academy track will include

Taught by NFA FacultyThis is an elective course for students that helps builds community among early college scholars and faculty. Scholars reflect upon and monitor their academic progress through a formal conferencing structure. Scholars identify and develop the necessary attitudes, behaviors and skills to succeed in school. Scholars'build upon their knowledge of the higher education landscape, including the
college application and admissions processes.

Grade 10	Intro to Teaching - Elective Course 1 Elective High
	School Credit offered in partnership with the Hudson Valley RBERN (Regional Bilingual Education
	Resource Network)

# Intro to Teaching - CRS 7971 1.00 (Upcoming College Course SUNY OC)

This is an elective course for students interested in the teaching profession. Students will learn about the teaching profession, develop skills, explore career opportunities, and make informed decisions about pathways to accomplish a career in

		education; taking their first steps on a teaching career continuum. <b>Prerequisites</b> : Students who successfully complete Spanish 4T, ELLs approaching English proficiency, and Bilingual students (Spanish).	
Grade 11	Integrating ELLs in the Schools and Classroom - Dual Enrollment (2) semester-long course as a Dual Enrollment 3 credit course in partnership with SUNY New Paltz	Integrating ELLs in the Schools & Classroom - CRS 7982 1.05 This is a dual enrollment course in partnership with SUNY New Paltz. Students will learn instructional techniques and strategies for meeting the needs of English Language Learners (ELLs) in integrated classrooms. Students will examine how language proficiency affects academic development, how to choose the most appropriate materials and activities for the classroom, and using culturally inclusive instructional practices.	Upcoming - Psychology Course (MSC)
Grade 12	Upcoming College Credit Course		

# English as a New Language/ Departamento de Inglés como Nuevo Idioma

@2.0

(English as a New Language -ENL)

ENL- Entering/Principiante (Gr. 9-10) - CRS 2018

This course is offered to those students who are highly dependent on resources and structures to develop their academic language skills and have not yet met the linguistic demands necessary to demonstrate English proficiency in various contexts or academic environments. To get the maximum benefit from oral English, this class is three periods including 1 period of co-integrated ELA/ENL.

**Prerequisites:** Limited English proficiency based on NYSITELL or NYSESLAT results.

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

Este curso es ofrecido a aquellos estudiantes que tienen gran dependencia de los recursos y estructuras para desarrollar sus habilidades lingüísticas académicas y todavía no han alcanzado las exigencias lingüísticas necesarias para demostrar dominio de inglés en diversos contextos o entornos académicos. Para obtener el máximo beneficio del inglés oral, esta clase es de tres periodos incluyendo 1 periodo de ELA/ENL co-integrado. **Pre-Requisitos:** Tener Competencia limitada en el inglés, según los resultados del NYSITELL o NYSESLAT

**Requisitos para el curso**: Participación activa en la clase, notas satisfactorias en todas asignaciones y pruebas, una libreta satisfactoria y una carpeta de tareas.

ENL- Entering/Principiante (Gr. 11-12) - CRS 2028 Ø 2.0

This course is offered to those students who are highly dependent on resources and structures to develop their academic language skills and have not yet met the linguistic demands necessary to demonstrate English proficiency in various contexts or academic environments. To get the maximum benefit from oral English, this class is three periods including 1 period of co-integrated ELA/ENL.

**Prerequisites:** Limited English proficiency based on NYSITELL or NYSESLAT results

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

Este curso es ofrecido a aquellos estudiantes que tienen gran dependencia de los recursos y estructuras para desarrollar sus habilidades lingüísticas académicas y todavía no han alcanzado las exigencias lingüísticas necesarias para demostrar dominio de inglés en diversos contextos o entornos académicos. Para obtener el máximo beneficio del inglés oral, esta clase es de tres periodos incluyendo 1 periodo de ELA/ENL co-integrado. Pre-Requisitos: Tener Competencia limitada en el inglés, según los resultados del NYSITELL o NYSESLAT

**Requisitos para el curso**: Participación activa en la clase, notas satisfactorias en todas asignaciones y pruebas, una libreta satisfactoria y una carpeta de tareas.

### ENL- Emerging/Emergente (Gr. 9-10) - CRS 2038

This course has been designed to help students become accustomed to the United States way of teaching and to strengthen their language skills in reading and writing in English. This is the second course in the English as a New Language course series. This class is two periods including 1 co-integrated ELA/ENL period.

@2.0

**Prerequisites:** Limited English proficiency based on NYSITELL or NYSESLAT results

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

Este curso ha sido diseñado para ayudar a los estudiantes a acostumbrarse al modo de enseñanza de los Estados Unidos y a fortalecer sus habilidades lingüísticas, en la lectura y la escritura en inglés. Este es el segundo curso de la serie de cursos del inglés como nuevo idioma. Esta clase es de dos periodos incluyendo 1 periodo de ELA/ENL co-integrado.

**Pre-Requisitos**: Tener Competencia limitada en el inglés, según los resultados del NYSITELL o NYSESLAT

**Requisitos para el curso**: Participación activa en la clase, notas satisfactorias en todas asignaciones y pruebas, una libreta satisfactoria y una carpeta de tareas.

#### ENL-Emerging/ Emergente (G. 11-12) - CRS 2048 2.0

This course has been designed to help students become accustomed to the United States way of teaching and to strengthen their language skills in reading and writing in English. This is the second course in the English as a New Language course series. This class has two periods including 1 co-integrated ELA/ENL period.

**Prerequisites:** Limited English proficiency based on NYSITELL or NYSESLAT results

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

Este curso ha sido diseñado para ayudar a los estudiantes a acostumbrarse al modo de enseñanza de los Estados Unidos y a fortalecer sus habilidades lingüísticas, en la lectura y la escritura en inglés. Este es el segundo curso de la serie de cursos del inglés como nuevo idioma. Esta clase es de dos periodos incluyendo 1 periodo de ELA/ENL co-integrado.

**Pre-Requisitos:** Tener Competencia limitada en el inglés, según los resultados del NYSITELL o NYSESLAT

**Requisitos para el curso**: Participación activa en la clase, notas satisfactorias en todas asignaciones y pruebas, una libreta satisfactoria y una carpeta de tareas.

### ENL Transitioning/ En Transición - CRS 2058 (formerly 258B)ENL Stand-alone for Living EnvironmentØ 1.0

This course is for students who are at the **Transitioning** proficiency level of English as a new language but still need **additional practice and support** with vocabulary and academic context **in Living Environment**. This course has been designed to help students develop the language and academic skills necessary to demonstrate proficiency in English and Living Environment.

**Pre-requisites:** Be at the Transitioning English proficiency level according to the NYSITELL or NYSESLAT results and have demonstrated low performance in the Living Environment regents.

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

Este curso es para estudiantes que se encuentran en el nivel de dominio de transición del inglés como nuevo idioma pero que aún necesitan práctica adicional y apoyo con el vocabulario y contexto académico en las Ciencias Naturales. Este curso ha sido diseñado para ayudar a los estudiantes a desarrollar el lenguaje y las habilidades académicas necesarias para demostrar dominio del inglés y en Medio Ambiente y Vida (Living Environment).

**Pre-Requisitos**: Estar en el nivel de dominio del inglés en transición de acuerdo con los resultados de NYSITELL o NYSESLAT y haber demostrado un bajo rendimiento en los regentes de Medio Ambiente y Vida (Living Environment).

**Requisitos para el curso**: Participación activa en la clase, notas satisfactorias en todas asignaciones y pruebas, una libreta satisfactoria y una carpeta de tareas.

### EDUCACIÓN BILINGÜE Departamento de Estudios Sociales

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This course is offered to Newcomer English Language Learners at the Entering & Emerging English proficiency levels. This course provides support and structures to advance academic language skills in the home language (Spanish) in order to support students in meeting the academic demands necessary to demonstrate language proficiency in a variety of academic contexts (settings). Home Language instruction occurs IN SPANISH using sheltered techniques, independent reading level, one-on-one conferencing, and small group instruction to teach Spanish literacy skills.

**Prerequisite:** The student must be a Spanish Native Speaker with low literacy skills in Spanish, **be in the bilingual program** and Entering/Emerging proficiency level score on either NYSITELL or NYSESLAT exams.

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

Este curso se ofrece a estudiantes recién llegados al idioma inglés en los niveles de dominio del inglés Principiante y Emergente. Este curso brinda apoyo y estructuras para mejorar las habilidades lingüísticas académicas en el idioma natal (español) con el fin de ayudar a los estudiantes a alcanzar las demandas académicas necesarias para demostrar dominio del idioma en una variedad de contextos académicos. La instrucción es EN ESPAÑOL utilizando el nivel de lectura independiente, conferencias individuales e instrucción en grupos pequeños para enseñar habilidades de alfabetización en español.

**Pre-Requisitos**: El estudiante debe hablar el español como su primer idioma, **estar en el programa bilingüe**, tener bajo dominio de las destrezas fundamentales del idioma español y estar en el nivel Principiante o Emergente en el idioma inglés.

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook and assignment folder.

#### 

This course is designed to capitalize on the fluency students have already achieved. The emphasis is on increasing vocabulary and refining correct use of Spanish. The main goal is to improve reading and writing skills with an emphasis on literature. The student will also come to understand Latin contributions to world civilization.

**Prerequisites:** The student must speak Spanish as their first language, **be in the bilingual program**, and demonstrate mastery of fundamental Spanish language skills.

**Course Requirements:** Active participation in class, satisfactory grades on all assignments and tests, a satisfactory notebook, cultural project, Checkpoint B exam.

Este curso está diseñado para capitalizar la fluidez que los estudiantes ya han logrado. El énfasis es aumentar el vocabulario y refinar el uso correcto del español. Lo importante de este curso es mejorar las habilidades de lectura y escritura con énfasis en la literatura. El estudiante también llegará a entender las contribuciones Latinas en la civilización mundial.

**Pre-Requisitos**: El estudiante debe hablar el español como su primer idioma, **estar en el programa bilingüe** y demostrar dominio de las destrezas fundamentales del idioma español.

**Requisitos para el curso**: Participación activa en la clase, notas satisfactorias en todas asignaciones y pruebas, un cuaderno satisfactorio, proyecto cultural, examen Checkpoint B.

### Global History I Bilingual

Historia Global y Geografía I Regente (9) - CRS 4017 🛛 Ø 1.0

This course is offered in the Bilingual program at NFA Main: The Global History and Geography curriculum is offered in a two-year program (Grades 9 and 10) based on the five New State Social Studies learning standards York. This program is designed around eight historical units of basic themes that occur over time. This curriculum provides students with the opportunity to explore the development of political systems around the world, and analyze the role that individuals and groups play during various important time periods and key points in global history.

**Prerequisites:** Be in the Bilingual program **Course requirements:** According to the course study plan

Este curso se ofrece en el programa Bilingüe en NFA Main: El currículo de Historia Global y Geografía se ofrece en un programa de dos años (Grados 9 y 10) basado en los cinco estándares de aprendizaje de Estudios Sociales del Estado Nueva York. Este programa está diseñado alrededor de ocho unidades históricas de temas básicos que suceden a través del tiempo. Este currículo le provee al estudiante la oportunidad de explorar el desarrollo de los sistemas políticos alrededor del mundo, y analizar el papel que desempeñan los individuos y grupos durante varios períodos importantes de tiempo y puntos claves en la historia global.

**Pre-requisitos:** Estar en el programa Bilingüe **Requisitos del curso**: Según el plan de estudio del curso

### Global History II Bilingual Estudios Globales II Regente (10) - CRS 4027

This course is offered in the Bilingual program at NFA Main: This course is a continuation of the Global Studies I course. The course incorporates teachings from the various social studies disciplines to understand various cultures and their value systems. The emphasis of the course is on investigating cultural development and social changes in global history with emphasis on the use of study guides. The state Regents test will be the final evaluation. This course is offered in Spanish and English.

**Prerequisites:** Have completed the Global Studies I course and be in the Bilingual program

Course Requirements: According to the course study plan

Este curso se ofrece en el programa Bilingüe en NFA Main: Este curso es la continuación del curso de Estudios Globales I. El curso incorpora enseñanzas de las varias disciplinas de estudios sociales para entender varias culturas y sus sistemas de valores. El énfasis del curso es en investigar el desarrollo cultural y los cambios sociales en la historia global con énfasis en el uso de guías de estudio. La prueba de Regentes del estado será la evaluación final. Este curso es ofrecido en español e inglés.

**Pre-requisitos:** Haber completado el curso de Estudios Globales I y estar en el programa Bilingüe

Requisitos del curso: Según el plan de estudio del curso

### **American History Bilingual**

@ 1.0

Historia de los Estados Unidos y su Gobierno (11) 🛛 🤗 1.0 CRS 4117

This course is offered in the Bilingual program at NFA Main: This is a course about the history of the United States. This course will include a chronological examination of the United States in general, but the emphasis is on the United States as an industrial nation – emerging and fully developed. Constitutional and legal issues will be explored in depth, as will the problems of a dynamic, industrial society in a complex, technology-driven world. The Regents test will be the final evaluation for this course. This course is offered in Spanish and English.

**Prerequisites:** Passed the Global Studies course and be in the Bilingual program.

Course requirements: According to the course study plan

Este curso se ofrece en el programa Bilingüe en NFA Main: Este es un curso sobre la historia de los Estados Unidos. Este curso incluirá un examen cronológico de los Estados Unidos en general, pero el énfasis está en los Estados Unidos como nación industrial – emergente y completamente desarrollada. Temas constitucionales y legales serán explorados a fondo, al igual que los problemas de una sociedad industrial y dinámica en un mundo complejo, orientada por la tecnología. La prueba de Regentes será la evaluación final para este curso. Este curso es ofrecido en español e inglés.

**Pre-requisitos:** Haber aprobado el curso de Estudios Globales y estar en el programa Bilingüe.

@0.5

Requisitos del curso: Según el plan de estudio del curso

### Economy/ Economía Bilingual (12) - CRS 4207

This course is offered in the Bilingual program at NFA Main: This course focuses on the basic concepts and principles of economics, the main elements of economic systems, and the role of the various components of these systems, including the consumer, businesses, the worker, agriculture and the government. The emphasis is on the United States, the global economy and other economic systems. The economic decision process will be studied at all levels during the course. This course is offered in Spanish and English.

**Prerequisites:** Passed the required Social Studies courses and be in the Bilingual program.

**Course requirements:** According to the course study plan

Este curso se ofrece en el programa Bilingüe en NFA Main: Este curso se concentra en los conceptos básicos y principios de la economía, los elementos principales de los sistemas económicos y el rol de los varios componentes de estos sistemas, incluyendo el consumidor, empresas, el trabajador, agricultura y el gobierno. El énfasis es en los Estados Unidos, y en la economía global y otros sistemas económicos. Se estudiará el proceso de decisiones económicas en todos los niveles durante el curso. Este curso es ofrecido en español e inglés.

**Pre-Requisitos:** Haber aprobado los cursos requeridos de Estudios Sociales y estar en el programa Bilingüe.

Requisitos del curso: Según el plan de estudio del curso

### Government CRS 4307 Bilingual Participación en el Gobierno (Regentes) 12

This course is offered in the Bilingual program at NFA Main: This required course will emphasize the interaction between citizens and government at all levels: local, state and federal. The course will foster students' knowledge to participate in the democratic process. Students in this course will be required to do ten hours of community service. This course is offered in Spanish and English.

**Prerequisites:** Passed the required Social Studies courses and be in the Bilingual program.

Course Requirements: According to the course study plan

Este curso se ofrece en el programa Bilingüe en NFA Main: Este curso requisito, acentuará la interacción entre los ciudadanos y el gobierno a todos los niveles: local, estatal y federal. El curso fomentará en los estudiantes conocimiento para participar en el proceso democrático. Los estudiantes de este curso tendrán que hacer diez horas de servicio comunitario. Este curso es ofrecido en español e inglés.

**Pre-Requisitos**: Haber aprobado los cursos requeridos de Estudios Sociales y estar en el programa Bilingüe.

**Requisitos del Curso**: Según el plan de estudio del curso

### EDUCACIÓN BILINGÜE Departamento de Matemáticas

### Algebra 1-A Bilingual - CRS 3007

@ 1.0

@ 0.5

This course is offered in the Bilingual program at NFA Main -Students will follow the NYS Algebra 1 Common Curriculum. This course is the first year of a two-year course of study to complete Algebra 1. This first year covers foundational skills and fits into Common Curriculum Algebra 1. Students who scored Level 1 on the state assessments in mathematics or have failed eighth grade mathematics will enroll in this course.

**Prerequisites:** Level 1 on the New York State 8th math assessment or have failed 8th grade math and be in the Bilingual program.

**Course Requirements:** All tests, quizzes, assignments and local final exam must be completed

Este curso se ofrece en el programa Bilingüe en NFA Main - Los estudiantes seguirán el currículo común NYS álgebra 1. Este curso es el primer año de un curso de dos años de estudio para completar álgebra 1. Este primer año cubre habilidades fundacionales y encajar en el currículo común álgebra 1. Estudiantes que obtuvieron una puntuación de nivel 1 en las evaluaciones de estado en matemáticas o han fallado las matemáticas de grado octavo se matricularán en este curso.

**Pre-Requisitos**: Nivel 1 en el estado de Nueva York matemáticas 8 evaluación o han fallado matemáticas de grado 8 y estar en el programa Bilingüe.

**Requisitos del curso:** Deben completar todas las pruebas, cuestionarios, tareas y examen final local

### Algebra 1-B - Bilingual CRS 3017

@1.0

This course is offered in the Bilingual program at NFA Main: Students will follow the NYS Algebra 1 Common Curriculum. This course is the second year of a two-year course of study to complete Algebra 1. Students enrolled in this course will take the Algebra 1 Common Core exam in June. This second year covers foundational skills rooted in the Algebra 1 common curriculum as you complete the curricular requirements to take the Regents exam in June.

**Prerequisites:** Completion of Algebra 1-A and be in the Bilingual program

**Course Requirements:** All tests, quizzes, assignments, and Regents Exam must be completed

Este curso se ofrece en el programa Bilingüe de NFA Main: Los estudiantes seguirán el currículo común NYS álgebra 1. Este curso es el segundo año de un curso de dos años de estudio para completar álgebra 1. Los estudiantes matriculados en este curso tendrán el examen álgebra 1 común central en junio. Este segundo año abarca habilidades fundamentales enfatizadas en el currículo común álgebra 1 al completar los requisitos curriculares para tomar el examen de los regentes.

**Pre-Requisitos**: Completar álgebra 1-A y estar en el programa Bilingüe

**Requisitos del curso**: Se deben completar todas las pruebas, cuestionarios, tareas y el examen Regente

### Geometry Bilingual Geometría – NR - CRS 31316 🖉 1.0

This course is offered in the NFA Main Bilingual program - This course is offered to students who have successfully completed Algebra 1 and the Algebra 1 Common Core Regents Exam and who need to earn additional mathematics credit exclusive from the regent exams. The course analyzes set theory and norms with the applications of the segment and angle of congruence. It will include a brief exposition on the methods of the triangle congruence test. Students will work with rules involving triangles, parallel lines, quadrilaterals, regular polygons, circles, basic right triangle trigonometry, similarity, and area.

**Prerequisites:** Complete the NYS Algebra I regent test and be in the Bilingual program.

**Course Requirements:** All tests, quizzes, assignments, and local final exam must be completed.

Este curso se ofrece en el programa Bilingüe de NFA Main -Este curso se ofrece a los estudiantes que han completado con éxito el álgebra 1 y el examen de regentes central común de álgebra 1 y que desean obtener un crédito de matemáticas adicionales exclusivos de los rigores de las pruebas regentes. El curso analiza la teoría de conjuntos y normas con las aplicaciones del segmento y ángulo de congruencia. Incluirá una breve exposición sobre los métodos de la prueba de congruencia de triángulo. Los estudiantes trabajarán con reglas que involucran triángulos, líneas paralelas, cuadriláteros, polígonos regulares, círculos, trigonometría del triángulo rectángulo básico, semejanza y área.

**Pre-Requisitos**: Completar la prueba regente de NYS Álgebra l y estar en el programa Bilingüe.

**Requisitos del curso**: Deben completarse todas las pruebas, cuestionarios, tareas y examen final local.

### EDUCACIÓN BILINGÜE Departamento de Ciencias Naturales

@ 1.0

### Living Environment-ENL Co-Integrated Medio Ambiente y Vida (Biología) - CRS 5007

This course is offered in the Bilingual program at NFA Main -Students will understand and apply scientific concepts, principles, and theories related to the physical environment. The main goal of this course is for students to understand the association between man and other beings on the planet. Students will also understand how and why we are equal and different from other beings; They will understand the systems of the human being and various animals; and they will understand how plants and animals influence each other. Students will learn to explain, analyze and interpret biological processes and phenomena. Topics: Unity and diversity among living beings; maintenance of living beings; chemistry of living beings, human physiology, reproduction and development; genetics, ecology and evolution. The course meets daily, with a laboratory on alternate dates.

**Prerequisites:** Students must have taken Integrated Algebra or be taking that course at the same time and be in the Bilingual program. .

**Course Requirements:** Have completed all labs, tests, and demonstrate the skills necessary to complete the labs and Regents exam.

Este curso se ofrece en el programa Bilingüe en NFA Main - Los estudiantes comprenderán y aplicarán conceptos, principios, y teorías científicas relacionadas al ambiente físico. La meta principal de este curso es que los estudiantes comprendan la asociación entre el hombre y otros seres en el planeta. También los estudiantes comprenderán cómo y por qué somos iguales y diferentes a otros seres; comprenderán los sistemas del ser humano y varios animales; y comprenderán como los planetas y los animales se influyen mutuamente. Los estudiantes aprenderán a explicar, analizar e interpretar procesos y fenómenos biológicos. Temas: Unidad y diversidad entre los seres vivos; mantenimiento de seres vivientes; química de seres vivientes, fisiología humana, reproducción y desarrollo; genéticas, ecología y evolución. El curso se reúne diariamente, con laboratorio en días alternados

**Pre-requisitos**: Estudiantes han de haber tomado Álgebra integrada o estar tomando ese curso a la misma vez y estar en el programa Bilingüe.

**Requisitos del curso**: Haber cumplido con todos los laboratorios, pruebas y demostrar las destrezas necesarias para completar los laboratorios y el examen de los Regentes.

# Earth Science- -ENL Co-IntegratedCiencias de la Tierra (10, 11, 12) - CRS 5107Ø 1.0

This course is offered in the bilingual program at NFA Main This course is a centralized laboratory program involving small groups in the interpretation of data using the scientific method. Areas of study include Geology (the study of the Earth - why and how it changes), Meteorology (atmospheric changes), Astronomy (the study of changes in the sky.) This subject is designed for students entering University. The course meets daily, with labs on alternating days.

**Prerequisites:** The student must pass middle school science before taking the Earth Science Regents exam. Must have completed the Biology and Integrated Algebra Regents exam and be in the bilingual program

**Course Requirements:** Completed 1,200 minutes of written laboratory work from the Regents exam.

Este curso se ofrece en el programa bilingüe en NFA Main

Este curso es un programa centralizado en el laboratorio involucrando pequeños grupos de la interpretación de datos usando el método científico. Las áreas de estudio incluyen la Geología (el estudio de la Tierra- porque y cómo cambia), Meteorología (los cambios atmosféricos), Astronomía (el estudio de los cambios del cielo.) Este sujeto está diseñado para los estudiantes que van a entrar a la universidad.

El curso se reúne diariamente, con laboratorio en días alternados

**Pre-requisitos**: Es esencial que cada estudiante pase ciencias de escuela intermedia antes de tomar el examen Regente de Ciencias de la Tierra. Deben de haber completado el examen Regente de Biología y Álgebra integrada y estar en el program bilingüe

**Requisitos del Curso**: Haber completado 1200 minutos de trabajo de laboratorio por escrito del examen Regente.

# Air Force Junior Reserve Office Training Corps

The fundamental purpose of Air Force Junior Reserve Officer Training Corps (AFJROTC) is to build citizens of character dedicated to serving their nation and community. The program is governed by the U.S. Air Force, and the citizenship training is conducted under the framework of an aerospace science program designed for high school students. It will acquaint students with the Air Force and aerospace environment, promote leadership skills, develop communications skills and encourage physical fitness.

The curriculum is divided into a four-year program, with students earning one academic credit for each year of JROTC they complete. There is no minimum number of years a student must remain in JROTC, but motivated students gain rank and increased responsibility with each additional year, so the students that remain the longest get the most benefit. (Note: AFJROTC is not a military recruitment program and there is no military obligation for participating. However, wear of the Air Force uniform, one day per week, is a mandatory part of the program.)

The AFJROTC program consists of the following three components: Aerospace Science, Leadership Education, and Wellness (i.e. physical training and healthy living).

Aerospace Science (AS). The academic portion of the program, and it consists of several courses listed below. It acquaints students with the aerospace environment and introduces them to aircraft and spacecraft technology, principles of flight, human requirements of flight, earth's atmosphere and astronomy. The history of aviation and the space program are also discussed. Other courses focus on global awareness or survival.

Leadership Education (LE). The leadership portion of the curriculum designed to develop leadership skills and acquaint students with the practical application of life skills. It emphasizes discipline, responsibility, leadership, followership, citizenship, customs and courtesies, cadet corps activities, study habits, time management, communication skills, and drill and ceremonies. Wellness Program. This part of the program consists of participation in physical fitness activities, as well as training in first aid, health, and nutrition. The objective is to motivate cadets to lead healthy, active lifestyles.

The following are the specific aerospace and leadership courses offered at NFA and the projected schedule for the next four school years:

- AS-100: A Journey into Aviation History
- AS-200: Science of Flight: A Gateway to New Horizons
- AS-220: Cultural Studies: (An Introduction to Global Awareness)
- AS-300: Exploring Space: The High Frontier
- AS-410: Survival: Survive and Return
- LE-100: Traditions, Wellness and Foundations of Citizenship
- LE-200: Communication, Awareness, and Leadership
- LE-300: Life Skills and Career Opportunities
- LE-400: Principles of Management
- LE-500: Drill and Ceremonies

# **Special Education Department**

The Special Education Department at the high school level is composed of a continuum of courses in the Least Restrictive Setting aimed at meeting the individualized educational plans of our students at Newburgh Free Academy. All placements in Special Education classes are made by the Committee on Special Education and are approved by the Board of Education.

Students should submit course requests to their guidance counselor based upon graduation credit needs and areas of interest. Special education settings are only available in core academic classes (English Math, Social Studies and Science). Sections of each course offering for each setting prescribed below will be based upon enrollment.

#### **Resource Program 5:1**

Students enrolled in the Resource Program take their courses in the general education setting and attend one period daily in the Resource Room, with a student to teacher ratio of 5:1. Students receive assistance as prescribed by their IEP and specific learning goals.

### Integrated Co-Teaching

The Integrated Co-Teaching setting is available for all Regents courses and some elective courses in English, Math, Social Studies and Science. The Integrated Co-Taught setting is a general education setting with a mix of general and special education students and taught by two teachers, one certified content teacher and one certified special education teacher. The maximum special education student enrollment per section is 12. All students are expected to take the appropriate Regents examination aligned to each course. All Regents courses will be available in the Integrated Co-Taught setting; core elective offerings will be available based upon student enrollment.

### 15:1 Setting

The 15:1 setting has a student to teacher ratio of 15 special education students to one teacher. This setting is available for many English, Math, Social Studies and Science courses as prescribed by the Committee on Special Education. All students are expected to take the appropriate Regents examination aligned to each course.

Students enrolled in the 15:1 program are presented with the same curriculum as all Regents students. Students may be enrolled in a mix of general education, ICT and 15:1 as prescribed by the Committee on Special Education. Students who pass the required five Regents exams with a 65% or higher will be awarded a Regents diploma. A student who earns a score of 55 - 64 on the Regents exams are eligible for a Local High School diploma. In order to receive a Regents Diploma, students must meet the requirements established by NYS.

### 8:1:2 and 12:1:1 Career Ladder Program for Alternately Assessed Students not grading with a NYS High School Diploma

\*\*\* Only prescribed by the Committee on Special Education in alignment with the NYS Alternately Assessed Guidelines

Students prescribed for the Career Ladder Program through the Committee on Special Education will complete academic core course programming in addition to a Career Ladder Program preparing them for career readiness. Students in this program will graduate with a Commencement Credential and may be eligible for a CDOS credential through CTE course offerings and job embedded

### INDEX (A-Z)

Academic Intervention Services (AIS)	18
Advanced Placement Course Offerings	12
Aerospace Science, Leadership Education, and Wellness Course Descriptions	71
Air Force Junior Reserve Office Training Corps	90
Architecture & Engineering Course Descriptions	57
Auto Body Repair Course Descriptions	58
Automotive Technology Course Descriptions	59
Barbering Course Descriptions	60
Career and Technical Education	56
College Credit Offerings	7
Computer Science and Coding Course Descriptions	61
Construction Course Descriptions	62
Cosmetology Course Descriptions	63
Counselors by Building	4
Course Planner	19
Criminal Justice & Security Course Descriptions	64
Culinary Arts and Restaurant Management Course Descriptions	65
Cyber Security	82
Electronics Course Description	66
English as a New Language/ Departamento de Inglés como Nuevo Idioma	84
English Language Arts	20
Fashion Course Descriptions	67
Fine and Performing Arts	42
GPA & Grading	16
Grade Level Requirements	7
Graduation Requirements (continued)	
Graduation Requirements	13
Health Science Career Pathway	69
Health Science Education Pathway Overview	68
Junior Reserve Officer Training Corps, Air Force	
	<u>70</u> 52
Languages Other Than English (LOTE) Course	
Mathematic Courses	25
Mathematics	24
Mathematics Electives	24
Music Courses	43
NCAA & Athlete Eligibility	18
New York State Science Honor Society and Criteria	<u>11</u>
North Elective Courses	78
Nutrition Course Pathway	<u>72</u>
Our Campuses	5
Performing Arts Courses	45
Photography Course Descriptions	73
Physical Education & Health Courses	50
Program at NFA North Campus	69
Program is at NFA North	64
P-TECH (NFA North)	80
Science	28
Science Courses	29
Social Studies	36
Social Studies Courses	37
Special Education Department	91
Studio Art Courses	79
Table of Contents	2
Teacher Preparation Academy & SMART Scholar Early College Teaching Pathway	83
Third Unit Options	77
Understanding Programs of Study	6
Video Production Course Descriptions	74
Visual/Studio Art Courses	47
Visual Communications/Graphics Course Descriptions	75
Welding Course Descriptions	76
World Languages	52