

NEWBURGH FREE ACADEMY CHARTING YOUR COURSE



YOUR PATH TO GRADUATION: 2018-2019 EDITION

Table of Contents -

School Counselors by Building	2
Our Campuses	3
Understanding the Program of Studies	4
College Credit Offerings	5
Advanced Placement Course Offerings	6
Graduation Requirements	7
NCAA and Athlete Eligibility	10
Course Planner	11
English Language Arts	12
Mathematics	16
Science	21
Social Studies	31
Health Education	37
Fine and Performing Arts	38
Music	39
Performing Arts	41
Physical Education	43
World Languages	44
Studio Arts	48
NFA North Electives	49
Career and Technical Education	50
Third Unit Options	78
Excelsior Academy	80
English as a New Language	84
Air Force Junior Reserve Officer Training Corp	88
Special Education	89

Counselors by Building -

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The NFA Counseling Web Site may be found at <u>http://www.newburghschools.org/schools/nfa/guidance.php</u> for all general information, course offerings contact information. click on <u>Charting Your Course</u> 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.



NFA MAIN CAMPUS-The Campus is located at 201 Fullerton Avenue in the City of Newburgh. Programs at NFA Main Campus include: 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. Programs at NFA North Campus include: AFJROTC, Criminal Justice, Health Related Services, NFA North Campus is also the home of Excelsior Academy





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 West is a Big Picture Learning (BPL) school that strives to be a place where students are known well, understood, respected and able to have genuine relationships with adults. Each scholar's educational program involves authentic experiences with real world standards and consequences, and is designed by the people who know the student best. Students' learning plans grow out of their individual needs, interests, and passions. Our graduates are unique and creative individuals who will be able to rise above adversity in the adult world. One student at a time, NFA West provides a personalized learning environment that allows students to gain the skills and knowledge necessary to achieve success beyond high school. NFA West relies on strong relationships with family, community, businesses, government and all other educational institutions to expand the role of the school in the community and the community in the school.

Understanding the Program of Studies



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 it 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 sections with counselors. Counselors will work with students to align their choices with their future career interest. Scholars will work with students and encourage them the select an academically rigorous course load based on academic performance. If parents would like to participate in this process, please contact your child's school counselor.

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.

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

GRADE LEVEL CLASSIFICATION AND REQUIRED CREDITS FOR FROGRESSION		
9 th Grade	10 th Grade	11 th Grade
Physical Education (.5)	Physical Education (.5)	
(1) Credit from:	(6) Credits from:	(2) Credits each from:
English 9 or	English 9	Mathematics
Global Studies or	Global Studies I and II	Science
U.S. History	Mathematics	
	Science	
AND (1) Credit from any of the following		
English 9	AND (4) Elective Credits	
Mathematics		
Science		
U.S. History		
(2.5) Credits Total	(10) Credits Total	15.5 Credit Total

GRADE LEVEL CLASSIFICATION AND REQUIRED CREDITS FOR PROGRESSION

College Credit Offerings

In preparing for *Beyond the Academic Field*, it is important that 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.

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.

SUNY ALBANY -Offering 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.

EXCELSIOR ACADEMY- Will be in its fourth year at NFA, 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 Excelsior Academy 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. Excelsior Academy'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 Excelsior Academy, the length of the school day and the school year is longer for enrolled students.

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.

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 20 AP courses. The availability of these courses 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.

English	Social Studies	Mathematics	Science	Other Subjects
AP English Literature and Composition	AP Macroeconomics	AP Calculus AB	AP Biology	AP Italian Language and Culture
AP English Language*	AP Psychology	AP Calculus BC	AP Chemistry	AP Spanish Language and Culture
	AP United States Government and Politics	AP Computer Science A	AP Environmental Science	AP Studio Art: 2-D Design Portfolio
	AP United States History	AP Computer Science Principles	AP Physics 1	AP Studio Art: Drawing Portfolio
	AP World History		AP Physics C: Electricity and Magnetism	
			AP Physics C: Mechanics	

*New for the 2019-2020 School Year

Graduation Requirements



Credit Requirements for Diploma

Subject Areas	Credits Needed For Regents and Local Diploma	Credits Needed For Regents with Advanced Designation
English	4.0	4.0
Social Studies	4.0	4.0
Distributed as Follows:		
U.S. History (1)		
Global History and Geography (2)		
Participation in Government (1/2)		
Economics (1/2)		
Science	3.0	3.0
Distributed as Follows:		
Life Science (1)		
Physical Science (1)		
Life Science or Physical Science (1)		
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 Designa	Regents with Advanced Designation Exam Requirements		
Depending on the pathway a student using pathways listed below.	chooses, the Regents diploma with advanced designation assessment requirements		
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 ENDORS	EMENTS
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 at 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	 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. A. Students wishing to receive the New York State (NYS) Seal of Biliteracy must complete all requirements for graduating with a NYS Regents diploma*; and B. 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: http://www.nysed.gov/common/nysed/files/criteria for nyssb.pdf

* 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

Graduation Requirements (continued)

Exceptional Learners

NYSED required all students to earn 22 credits for graduation. However, NYSED has created 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	22 Credits AND	
SWDs	Low Pass 55-63 on Regents exams	
	Appeals of scores of 52-54 for SWDs	
Compensatory Option	 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) English and math scores must be 55 or higher 	
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)	 Provided in conjunction with diploma Sole exiting credential for some students with disabilities. Students must be provided appropriate opportunities to earn diploma OPTION 1 Career Plan completed annually Minimum 2 units (216 hours) of study in CTE coursework, including at least 54 hours of Work-Based Learning Completion of Employability Profile OPTION 2 Attainment of a nationally recognized work readiness credential 	 Benefits of the CDOS Credential Develops entry level employment skills through work-based learning Community Experience Employability Profile can be shared with employers and adult agencies Barriers of the CDOS Credential The CDOS is not a diploma and does not meet the requirements for college entrance and military enrollment. May not meet hiring requirements with employers. May not meet requirements for entry into vocational training
Skills and Achievement Commencement Credential	 NYSAA eligible and assessed students Attended 12 years excluding K, or end of year attains age 21 CDOS learning standards instruction including community and work-based learning Accompanied by designated comprehensive Student Exit Summary document 	 Benefits of the Skills Credential Community Experience (work sites, field trips, volunteer opportunities) Work Skill Development Barriers of the Skills Credential This is not a diploma Majority of students will be entering into programs (day habilitation, pre-vocational, supported employment) following exit

Source: https://www.nystransitionpartners.org/

NCAA & Athlete Eligibility -

NCAA APPROVED COURSES

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

ACADEMIC REQUIREMENTS-To play sports at a Division I, II or III school, you must graduate from high school, complete 16 NCAAapproved 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 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 in the requirements on GPA and SAT please see <u>www.ncaa.org/student-athletes/future/test-scores</u>.

THE ROLE OF THE STUDENT

Freshman - Grade 9-Plan	Juniors - Grade 11-Study
 Start planning now! Take the right courses and earn the best grades you can. 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 <u>www.eligibilitycenter.org/courselist</u>. 	 Check with your counselor to make sure you are on track to graduate on time. Take the ACT or SAT, and make sure we get your scores by using code 9999. At the end of the year, ask your counselor to upload your official transcript.
 Sophomores - Grade 10-Register Register for a Certification Account or Profile Page with the NCAA Eligibility Center at <u>www.eligibilitycenter.org</u>. 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. 	 Seniors - Grade 12-Graduate Take the ACT or SAT again, if necessary, and make sure we get your scores by using code 9999. Request your final amateurism certification after April 1. After you graduate, ask your counselor to upload your final official transcript with proof of graduation.

NCAA APPROVED COURSES FOR NFA

AP ENGLISH LITERATURESTUDAP LIT & COMPAP GOARGUMENTATION & DEBATEAP M	CAN-AMERICAN DIES OVERNMENT US MACROECONOMICS	ALGEBRA 1 ALGEBRA II COMMON CORE HONORS	AP ENVIRONMENTAL SCIENCE AP PHYSICS 1	AP ITALIAN LANGUAGE AP SPANISH LANGUAGE
AP LIT & COMP AP GO ARGUMENTATION & DEBATE AP M	OVERNMENT US	HONORS		
ARGUMENTATION & DEBATE AP M			AP PHYSICS 1	
	ACROECONOMICS			AP SPANISH LITERATURE
		ALGEBRA II COMMON CORE	ASTRONOMY	INTENSIVE ITALIAN
CREATIVE WRITING AP M	IACROECONOMICS	REGENTS	ASTRONOMY AND	INTENSIVE SPANISH
ELEMENTS OF WRITING AND	GOVT	AP COMPUTER SCIENCE A	METEOROLOGY	ITALIAN 1
ENGLISH 10 RP AP US	S GOVT AND POLITICS	AP CALC AB	AP BIOLOGY	ITALIAN 2
ENGLISH 10/H WITH	H ECO	AP CALC BC	AP CHEMISTRY	ITALIAN 3
ENGLISH 10/R AP US	S HISTORY	GEOMETRY COMMON CORE	CHEMISTRY HONORS	ITALIAN 5
ENGLISH 11/H AP W	VORLD HISTORY	GEOMETRY COMMON CORE	CHEMISTRY R	SP NAT SPK
ENGLISH 11/R ECON	NOMICS HONORS	HONORS	EARTH SCIENCE HONORS	SPAN LANG CULT
ENGLISH 11/RP ECON	NOMICS R	PRE-CALC	EARTH SCIENCE R	SPANISH 1
ENGLISH 12 HONORS GLBL	ST 1 HONORS	PRE-CALC HONORS	ENVIRONMENTAL SCIENCE	SPANISH 2
ENGLISH 12 REGENTS GLBL	ST 1R	PROB & STAT	FIELD BIOLOGY	SPANISH 3
ENGLISH 12/RP GLBL	ST 2 HONORS	ALGEBRA 1A (.5 CREDIT)	GEN CHEM	SPANISH 4T
ENGLISH 9/E(HON) GLBL	. ST 2R	ALGEBRA 1B (.5 CREDIT)	HUMAN ANAT & PHYS	SPANISH/
ENGLISH 9/R GOVT	TR	AP PRINCIPLES COMPUTER	FORENSIC SCIENCE	CONVERSATIONAL
ENGLISH 9/RP GOVT	T HONORS	SCIENCE	LIVING ENVIRONMENT R	
ENGLISH LIT AP PS	SYCHOLOGY		LIVING ENVIRONMENT	
FRESHMAN ENGLISH 1 PSYC	HOLOGY		HONORS	
FRESHMAN ENGLISH 2 SOCIO	OLOGY		PHYSICS C/AP	
JOURNALISM 1 US HI	IST R		PHYSICS REGENTS	
MULTICULTURAL LITERATURE US HI	ISTORY H		URBAN ECOLOGY	
SENIOR ENGLISH				

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.**

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		0.5

English Language Arts

Potential Sequence of Study for English Graduation Requirements:



- A written examination and/or a student portfolio will be used to provide a "final exam" mark in all English courses.
- The ELA (Common Core) Regents Examination is given in Grade 11 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 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.
- In addition to four full year courses in English (9, 10, 11, 12) that are required for graduation, students can opt to take additional English electives that are offered as half-year courses.

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 Language Arts Courses -

English 9 Honors - CRS 091

[Credit 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.

English 9 Regents - CRS 092

[Credit 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.

English 10 Honors - CRS 001

[Credit 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 with at least an 85% average.

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 002

[Credit 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.

English 11 Honors - CRS 011

[Credit 1.0]

[Credit 1.0]

This course builds upon the foundations of English 10 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 response to literature, both fiction and nonfiction. Both the depth and breadth of study are greater than for Regents English classes.

Prerequisites: Successful completion of the ELA Common Core English Regents Exam, a minimum of 85% in ELA 10 Honors or 90% in ELA 10 Regents

Note: Students entering this course from English 10 Regents will be required to take the ELA Common Core Regents in January.

English 11 Regents-CRS 012

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.

Advanced Placement English Language & Composition CRS 052 [Credit 1.0]

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. Students entering this course from English 10 Regents will be required to take the ELA Common Core Regents in January.

Prerequisites: Successful completion of English 10 Honors or English 10 Regents.

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 050 [Credit 1.0]

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. Although the Advanced Placement Examination is not a requirement of the course, special time will be allocated for in-depth preparation, and students are strongly urged to enroll for the examination.

Note: Students are required to take the AP exam.

Prerequisite: Successful completion of AP English Language & Composition, English 11 Honors, 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 019

[Credit 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.

Senior English - CRS 020

[Credit 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. In addition to studying high quality literature, students will prepare for successful completion of the ELA Common Core Regents Exam.

Note: Students in this course have not passed the ELA Common Core Regents Exam.

Freshman English I (ENG 101) CRS 081 CRS 081T *

[Credit 1.0] [Credit 1.0]

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 11 Regents or 11 Honors, the NYS Common Core English Exam, and meet the requirements set by the college or university offering the course.

Note: Students who have placed into any developmental reading or writing courses must complete them before taking Freshman English 1 (ENG 101).

* This course is offered through the P-Tech program

Freshman English II (ENG 102) 082T* [Credit 1.0] 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 (ENG 101)

* This course is offered through the P-Tech program

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..

African-American Literature - CRS 026

[Credit 0.5]

This multi-genre literature course scans 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.

Journalism - CRS 051

[Credit 0.5]

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. Students will be expected to meet deadlines.



Creative Writing - CRS 030

[Credit 0.5]

[Credit 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.

Independent Study in Language Arts A - CRS 048 [Credit 0.5]

This course may be arranged on a topic of interest appropriate to language arts with the mutual consent of a teacher having expertise on the selected topic. The teacher will act as advisor and mentor for the course of study.

Prerequisites: Successful completion of English 11 and the ELA Common Core Regents exam.

Requirements: Completion of a project to include written documentation as mutually determined by the student, advisor (teacher) and approved by the Director of English.

Multicultural Literature - CRS 018

This multi-genre literature course is based on the belief that 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. Participation in class discussion, journal entries, development of a portfolio of student work, essays, quizzes, and tests are requirements.

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** to attain at least 4 credits of mathematics.



Mathematic Courses

Algebra 1-Common Core (9,10,11,12) - CRS 315 [Credits 1.0]

Students enrolled in this course will follow the NYS Common Core Curriculum 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, guadratic 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.

Algebra 1-B Common Core (10,11) CRS- 316 [Credit 1.0]

Students will follow the NYS Algebra 1 Common Core 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 Common Core Exam in June. This second year covers foundational skills embedded within the Algebra 1 Common Core 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 Algebra 1 Regents Exam must be completed

Pre-College Algebra (11,12) - CRS 306

[Credit 1.0]

This is a non-calculator based course designed for students to acquire and maintain enough 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. In addition, students will take practice placement exams to indicate their readiness and areas of weakness.

Prerequisites: Two Credits of High School Math Mathematics **Course Requirements:** All tests, quizzes, assignments and local final exam must be completed

Advanced College Algebra (11,12) CRS 307 [Credit 1.0]

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: Two Credits of High School Math Mathematics **Course Requirements:** All tests, quizzes, assignments and local final exam must be completed

Geometry – (10,11.12) CRS 333

[Credit 1.0]

This course is offered to students who have successfully completed the Algebra 1 and the Algebra 1 Common Core Regents Exam and who wish to obtain an additional math credit exclusive of the rigors of formal, analytic proofs. The course examines set theory and rules with applications to segment and angle congruence. It will include a brief exposure to methods of proving triangle congruence. Students will work with rules involving triangles, parallel lines, quadrilaterals, regular polygons, circles, basic right triangle trigonometry, similarity, and area.

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

Geometry Common Core (9,10,11,12) - CRS374 [Credit 1.0]

This course follows the NYS Geometry Common Core Curriculum Standards. 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 and Regents Exam.

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

Geometry Common Core Honors (9,10) - CRS 37 [Credit 1.0]

This course parallels the Geometry Common Core Curriculum, however, students will cover the material in greater depth, and are exposed to advanced and enrichment topics.

Prerequisites: Successful completion of Algebra 1 Common Core Course and successful completion of the Algebra Regents exam

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

Algebra 2 Common Core (10,11,12) - CRS 3170 [Credit 1.0]

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

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

Algebra 2 Common Core Honors (10,11,12) - CRS 3171

[Credit 1.0]

This course will follow the NYS Algebra II Common Core Curriculum Standards, but the topics studied all are of greater depth than the regular common core course. 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 and participation on the Geometry CC Regents exam

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

Pre-Calculus (11,12) - CRS 342

[Credit 1.0]

A study in Pre-Calculus mathematics is intended to provide the background necessary for calculus. Topics include Algebra, Trigonometry, Exponents, Natural Logarithms, Conic Sections, Limits, Matrices and Theory of Equations. Emphasis is on graphing polynomial, rational, exponential, logarithmic, and trigonometric functions. Graphing calculators and scientific calculators are frequently used by the students.

Prerequisites: Pass Integrated Algebra 1, Geometry, and Algebra 2 courses.

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

Pre-Calculus Honors (11,12) – CRS 331 [Credit 1.0]

This course can be taken for 3 Mercy College Credits 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: Pass Algebra 2 Common Core Honors with an 85 unweighted average and participation in the Algebra 2 Common Core Regents Exam.

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

Applied Calculus (12) - CRS 339

[Credit 1.0]

In this course, students are provided with a foundation in single-variable differential and integral calculus concepts and techniques that are applicable to topics in business, economics, social and life sciences. Calculus theory is developed with a hands-on, intuitive, data collecting and extending approach. Emphasis is on applying calculus skills to these and other branches of knowledge. Applications involving exponential and natural logarithmic functions are included.

Prerequisites: Pass Pre-Calculus or Pre-Calculus Honors Course Requirements: All tests, quizzes, assignments and local final exam must be completed.

Probability and Statistics (11,12) CRS-327

[Credit 1.0]

This course can be taken for 3 Mercy College credits 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. Method 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, Geometry Common Core and Algebra 2 Common Core courses.

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

AP Calculus AB (11,12) - CRS 340

[Credit 1.0]

This course can be taken for 4 Mercy College credits 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: Pass Pre-Calculus or Pre-Calculus Honors with an 85 unweighted grade.

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

AP Calculus BC (12) CRS 330 Credit 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: Pass Pre-Calculus Honors with a 90 or above unweighted grade

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

AP Computer Science Principles (10,11,12) - CRS-355

[Credit 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 Geometry Common Core Course and Regents Exam.

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

AP Computer Science (11,12) CRS-357

[Credit 1.0]

[Credit 1.0]

Computer science embraces problem solving, hardware, algorithms, and perspectives that help people utilize computers to address real-world problems in contemporary life. AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science a course curriculum is compatible with many CS1 courses in colleges and universities. AP Credit Prerequisites: Successful Completion of Algebra II Common Core Regents Course.

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

Financial Literacy (11,12) - CRS 390

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: Passed the Integrated Algebra course and Regents Exam

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

Medical Mathematics (10,11,12) (North Campus Only) CRS-391 [Credit 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 local final exam must be completed.

Digital Citizenship (9, 10, 11,12) - CRS-392

[Credit 0.5]

This course offering is to provide students with a basic understanding of how the internet works, the proper way to use it and ways to cultivate and manage their digital information. Topics would include cyber-bullying, phishing, identity theft hacks, digital footprints, virtual private networks, digital citizenship, etc.

Prerequisites: None

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

Exploring Computer Science (9,10,11,12) (North Campus Only) - CRS 3500

[Credit 1.0]

This course is designed 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.



Science –

Level	Grade 9	Grade 10	Grade 11	Grade 12
AP/College Electives			 AP Biology AP Chemistry AP Environmental Science AP Physics 1 AP Physics C: Mechanics AP Physics C: Electricity & Magnetism Forensic Science Science Research in the High School 	 AP Biology AP Chemistry AP Environmental Science AP Physics 1 AP Physics C: Mechanics AP Physics C: Electricity & Magnetism Forensic Science Science Research in the High School
Honors	BiologyEarth Science	BiologyChemistryEarth Science	ChemistryEarth ScienceAnatomy & Physiology	ChemistryEarth ScienceAnatomy & Physiology
Regents	Living EnvironmentEarth Science	Living EnvironmentEarth ScienceChemistryPhysics	Living EnvironmentEarth ScienceChemistryPhysics	Living EnvironmentEarth ScienceChemistryPhysics
Electives		 Astronomy & Meteorology Creative Solutions Through Science Environmental Science Field Biology General Chemistry Independent Study Intro to Forensic Science Network Science Research Science Research in the High School Urban Ecology 	 Advanced Field Biology Astronomy & Meteorology Creative Solutions Through Science Environmental Science Field Biology General Chemistry Human Body Independent Study Intro to Forensic Science Methods in Med Tech Network Science Research Network Science Science Research in the High School Urban Ecology 	 Advanced Field Biology Astronomy & Meteorology Creative Solutions Through Science Environmental Science Field Biology General Chemistry Human Body Independent Study Intro to Forensic Science Methods in Med Tech Network Science Research Network Science Science Research in the High School Urban Ecology

Science Courses -

Advanced Placement Biology (11, 12) - CRS 500 [Credit 1.0] [College Credit 8.0]

Advanced Placement Biology is a college course articulated with Mercy College 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 inquirybased 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.

Biology Honors (9,10) - CRS 502

[Credit 1.0]

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.

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 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 laboratory requirement and demonstrate proficiency in all mandated skills. 2. Regents examination. 3. Maintain an 85 or above in the course.



Living Environment Regents (9, 10, 11, 12) - CRS 502 [Cred

[Credit 1.0]

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 laboratory requirement and demonstrate proficiency in all mandated skills. Regents examination.

Methods in Medical Technology (11, 12) - CRS 507

[Credit 1.0]

North Campus - This course may be used as the 3rd unit of science to meet diploma requirements for a Regents Diploma. The course may not be used for Regents credit.

This course is the study of the principles and practice of clinical laboratory medicine, including approaching the patient, professional ethics, laboratory procedures, and the ECG technique. Use of technology to develop standard curves and determine clinical parameters like glucose and/or hemoglobin is studied. Students will prepare Levi-Jennings control charts, including determination of the mean, median, mode, standard deviation, and coefficient of variation configurations. Students will learn laboratory techniques in basic hematology using simulated human specimens, microbiology using non-pathogenic organisms, and immunology using simulated human specimens. Research in health care professions, interaction with guest speakers of healthcare professions and site visits to hospital departments are included. Correlated with lectures are readings and laboratory exercises to develop independent study. This is aligned with the Health Care Pathway at NFA North Campus. Students may be eligible for a certificate as a Medical Assistant.

Prerequisites: Successful completion of Regents Living Environment, Regents Chemistry, Regents Algebra I, all corresponding Regents exams, permission of the instructor. **Course Requirements:** Completion of all prescribed laboratory work and rotation assignments in healthcare settings.

Advanced Placement Chemistry (11, 12) - CRS 510 [Credit 1.0] [College Credit 1.0]

Advanced placement college chemistry is the traditional first year college course in general and inorganic chemistry. 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 in May, the American Chemical Society International Chemistry Olympiad Exam in April, and/or apply for college credit through Mercy College.

Prerequisites: Students much 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. Students must pass the AP Exam or meet Mercy College requirements to earn college credits.

Chemistry Advanced-Honors (10, 11, 12) - CRS511

[Credit 1.0]

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 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 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 512

[Credit 1.0]

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 laboratory requirement and turn in acceptable reports on their work.

General Chemistry (10,11, 12) – CRS 514

[Credit 1.0]

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: School final examination.

APC Mechanics (11, 12) - CRS 520

[Credit 0.5]

Main Campus - The Advanced Placement Physics C course articulated with Mercy College 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 AP Physics 1 before electing the Advanced Placement C course in Physics. Concurrent registration in Calculus is strongly recommended. Written permission of the instructor is required.

Course Requirements: Successful completion of the lab requirement and demonstration of proficiency in all mandated skills as prescribed by the College Board. School final is the AP Physics C Examination. 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.

Advanced Placement Physics 1 (11, 12) - CRS521 Credit 1.0

AP Physics 1 is an algebra-based, introductory college-level physics course that 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. Written permission of the instructor is required. Students are encouraged to complete Regents Living Environment and Regents Chemistry, before electing an Advanced Placement course. Meets double period/single period/double period on alternating days.

Course Requirements: Successful completion of the lab requirement, AP Physics 1 final examination, 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.

Physics Regents (10, 11, 12) - CRS 522

[Credit 1.0]

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 time computer interfacing. Students meet double real 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.

APC Electricity & Magnetism (11, 12) - CRS 529 [Credit 0.5]

Main Campus - The Advanced Placement Physics C course articulated with Mercy College 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 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 AP Physics 1 before electing the Advanced Placement C course in Physics. Concurrent registration in Calculus is strongly recommended. Written permission of the instructor is required.

Course Requirements: Successful completion of the lab requirement and demonstration of proficiency in all mandated skills as prescribed by the College Board. School final is the AP Physics C Examination. 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 532 [Credit 1.0]

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 Regents Algebra I or Grade 8 Math.

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.

Earth Science Honors (9, 10, 11, 12) CRS 533

[Credit 1.0]

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, Astronomy and Oceanography. Students meet alternately single and double periods for the full school year. **Prerequisites:** 85% final average in Junior High School science course (Grade 8) OR Living Environment Honors course and corresponding NYS Regents exam. 85% final average in Grade 8 Math course OR Regents Algebra I course and corresponding NYS Regents exam.

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 (10, 11, 12) - CRS527

[Credit 1.0]

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 Grade 8 Science. **Course Requirements:** Students must successfully complete laboratory work, projects, homework assignments, tests, quizzes and an in class final exam in June. Honors Anatomy & Physiology (11, 12) - CRS 542 [Credit 1.0]

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. A comprehensive final exam will be administered at the completion of the course.

Independent Study in Science Internship (10,11,12) CRS 554 [Credit 0.5]

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 unit of 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.

Science Research in the High School (10, 11, 12) - CRS 5800 [Credit 1.0]

North Campus - This is a three-year course starting in the sophomore year in which students learn research methodology in the natural and social sciences. Students will access scientific databases, use on-line bibliographic search techniques, consult doctoral-level research scholars, develop hypotheses and perform experiments under the guidance of a scientist mentor, and write research papers. Seniors will also submit their research to national and regional science competitions. At the end of each year, all students will present their research at the NFA annual science symposium. Students may apply for college credit during a student's junior and senior years through SUNY Albany.

Prerequisites: Permission of the instructor after submission of application essay and subsequent summer assignment; successful completion of one-year approved science course. Advancement to the next year is contingent upon symposium presentation and successful completion of each year's goals.

Intro to Forensic Science (10, 11,12) - CRS 577 [Credit 1.0]

North Campus - 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 Common Core Algebra I.

Course Requirements: School final examination.

Forensic Science College (11, 12) - CRS 559

[Credit 1.0] [College Credit 3.0]

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 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 the school final examination.

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. Written permission of the instructor; Senior Preference.

Field Biology (10,11, 12) - CRS 5520

[Credit 1.0]

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. The 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: Comprehensive final exam

Environmental Science (10,11, 12) - CRS 5510 [Credit 1.0]

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 minilabs. 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: Comprehensive final exam.

AP Environmental Science (11, 12) - CRS 526 [Credit 1.0]

This course is articulated with Mercy College. 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: Successful completion of Regents Living Environment, Regents Chemistry and Regents Algebra I Regents exams.

Course Requirements: Teacher recommendation and Two Saturday Black Rock forest field trips are required. Lab work and course assessments are to be completed.

Urban Ecology (10, 11, 12) - CRS 691

[Credit 1.0]

North Campus - Students will examine the city as an ecosystem. Principles of ecology will be reinforced as they compare city and rural ecosystems and study issues caused by a high population density of humans. Possible solutions will be explored as they take on the roles of environmentalists, city council members, scientists and engineers during research and project-based learning activities. Field trips within the city of Newburgh, to Black Rock, and to surrounding areas will help students study the use of resources and economic factors that are issues in the city environment. The lab component will include the use of GPS with GIS mapping, water testing, population sampling, energy usage, nutrient cycles, investigations into human/environmental interactions, uses of green technology, urban farming and sustainable city planning. The course culminates in the students planning their ideal city which incorporates the ideas learned throughout the year.

Prerequisite: Successful completion of Regents Earth Science or Regents Living Environment.

Course Requirements: Students must successfully complete laboratory and project work, homework assignments, tests, and a comprehensive Final Exam. Students need to be able to do moderate hiking and enjoy the outdoors.

Creative Solutions Through Science & Technology (10,11,12) - CRS 690 [Credit 1.0]

North Campus - 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.

Network Science Research (10,11, 12) CRS 5801 [Credit 0.5]

Main Campus - This course is an interdisciplinary course, focused on the emerging science of complex network and their real-world applications. The material includes the mathematics of networks, their applications to biology, sociology, technology and other fields, and their use in the research of real complex systems in nature and in manmade systems. The students will learn about the ongoing research in the field, and apply their knowledge in the analysis of real network systems, as the main objective of their final research project.

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

Course Requirements: Special permission is granted with instructor approval.

Network Science (11, 12) - CRS 5802

Main Campus - This course is an interdisciplinary course, focused on the emerging science of complex network and their real-world applications. The material includes the mathematics of networks, their applications to biology, sociology, technology and other fields, and their use in the research of real complex systems in nature and in manmade systems. The students will learn about the ongoing research in the field, and apply their knowledge in the analysis of real network systems, as the main objective of their final research project.

Prerequisite: Successful completion Network Science Research (5801)

Course Requirements: Special permission is granted with instructor approval.

[Credit 0.5]

Advanced Field Biology (11,12) - CRS 5521

[Credit 1.0]

Main Campus - This course is designed to familiarize students to 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 biologist 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, 2 Overnight trips (all day Friday return Saturday noon)

Human Body (11, 12) - CRS 504 [Credit 1.0]

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 occurring within their bodies allowing them to stay alive. Students will leave this course having gained an understanding of the structures and functions the human body, illness, and appropriate treatments which can be applied to their future health and medical well beings 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. A comprehensive final exam will be administered at the completion of the course.



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 Advanced Debate I, II and III Introduction to African American History U.S. Government & Politics with Economics Facing History Humanity History of Newburgh Facing History Civil Rights

Advanced Placement Courses

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

Social Studies Courses

Global History and Geography I Honors - CRS 191

[Credit 1.0]

The Global History and Geography core curriculum is a twoyear 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 192

[Credit 1.0]

The Global History and Geography core curriculum is a twoyear 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

Global History and Geography I/II Honors CRS191HS/101HS [Credit 2.0]

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/administrative recommendation

Course Requirements: per course syllabus

AP World History - CRS 1383

[Credit 1.0]

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.

Prerequisites: Successful completion of Global History I R/H with 85 average and/or recommendation from teacher. Pre-AP Summer Assignment, Departmental Approval **Course Requirements:** per course syllabus

Global History and Geography II Honors - CRS101 [Credit 1.0]

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 102 [Credit 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 120

[Credit 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 – CRS 121 [Credit 1.0]

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 112 [Credit 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.

Course Requirements: per course syllabus

AP Macroeconomics - CRS 137

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. **Course Requirements:** per course syllabus

[Credit 0.5]

AP Macroeconomics with Government - CRS 1380

[Credit 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

Course Requirements: per course syllabus

Economics - CRS 138

[Credit 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. - RS 140

[Credit 0.5]

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. **Course Requirements:** per course syllabus

AP U.S. Government & Politics with Economics - CRS 1382 [Credit 1.0]

This full year course combines the one-semester course in Economics with a one semester course in Advanced Placement American Government & Politics. This collegelevel 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. **Course Requirements:** per course syllabus

Participation in Government Honors: Current Topics -CRS 122

[Credit 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 141 [Credit 0.5]

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.

Course Requirements: per course syllabus

Psychology - CRS 130

[Credit 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.

Course Requirements: per course syllabus

AP Psychology - CRS 148

[Credit 0.5]

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: Seniors only carrying an 85 or better overall average and/or teacher recommendation, department approval. Course Requirements: per course syllabus

Sociology - CRS 131

[Credit 0.5]

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 125

[Credit 1.0]

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 126

[Credit 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 143

[Credit 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 145

[Credit 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.

Beginning Debate, Advanced Debate I, Prerequisites: Advanced Debate II

Facing History and Ourselves: Crimes of Humanity

The Crimes of Humanity course is an examination of racism, prejudice and anti-Semitism in order to promote the development of a more informed 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

[Credits 0.5]

[Credit 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 iustice system.

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

Introduction to African American History - CRS 110

[Credit 0.5]

Students will read a variety of informational text and literature during the semester including primary and secondary sources (books, encyclopedias, Internet access). Topics to be covered in the course include: an overview of ancient African empires, slavery in the Colonies and the Nation, the Civil War and Reconstruction, the impact of industrialization and urbanization on African Americans, the Harlem Renaissance, the Great Depression and World Wars I and II, the Civil Rights Movement and beyond, the contributions of African Americans to American society (including Obama's presidency).

Prerequisites: Completion of the required Social Studies courses.

Course Requirements: per course syllabus.

Facing History and Ourselves: Civil Rights [Credit 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

[Credits 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

[Credits 0.5] Introduction to Criminal Justice is the study of agencies and

processes involved in the 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 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.
[Credits 0.5]

Health Education Courses

Health - CRS 921

[Credits 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 explore its social and economic history over the past three centuries.

History of Sports

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.



Fine and Performing Arts

ELECTIVES	AUDITIONED PERFORMING ENSEMBLES	COURSES TO CONSIDER FOR THOSE INTERESTED IN POST SECONDARY ARTS MAJORS
*Explorations in Music (.5 credit)	Band	Any Performing Ensemble
*Beginning Piano (.5 credit)	Orchestra	Music Theory
*Intermediate Piano (.5 credit)	Chorus	Harmony
*Rock History (.5 credit)	Wind Ensemble	Beginning Piano
*Guitar (.5 credit)	Chaminade	Intermediate Piano
*Band (1 credit)	A Cappella	
*Orchestra (1 credit)	Boys Glee	Technical Theater
*Chorus (1 credit)	Madrigals	Acting Courses
*Wind Ensemble	Advanced Dance	
*Chaminade		Modern Dance Courses
*A Cappella	Jazz Ensemble	
Boys Glee	Percussion Ensemble	
Madrigals	Keyboard Ensemble	
*Music Theory 🛌		
Harmony 🖊		
Intro to Recording Tech		
*Performing Arts Laboratory		
*Technical Theater		
*Acting 1 🚬		
Acting 2		
Acting 3 🦊		
#Creative Movement		
#Modern Dance 1 🚬		
#Modern Dance 2 🤛		
#Advanced Dance		

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

Arts credit; Physical Education credit can be earned using corresponding PE course code.

Music Courses

Music Theory - CRS <u>801</u>

[Credit 1]

Designed for students with previous music experience who are interested in developing songwriting skills. Explores traditional, electronic and progressive methods for composing.

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

Grades: 9 – 12

Course meets the NYS Regents mandate of one credit in the Arts.

Harmony - CRS 802

[Credit 1]

Designed as a continuation of the skills gained in Music Theory with an emphasis on the study of figured bass. Develops creative music writing through the use of traditional and electronic instruments

Prerequisite: Successful completion of Music Theory or instructor permission.

Grades: 10-12

Arts credit applicable to a sequence of music study.

Explorations in Music - CRS 810

[Credit 0.5]

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

Prerequisite: None

Grades: 9-12

Partial fulfillment of requirements for the NYS Regents Mandate for graduation.

Rock History - CRS 811

[Credit 0.5]

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.

Partial fulfillment of requirements for the NYS Regents Mandate for graduation.

Beginning Piano - CRS 813

[Credit 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

Partial fulfillment of requirements for the NYS Regents mandate of one credit of Art and/or Music for graduation.

Intermediate Piano - CRS 850

[Credit 0.5]

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.

Partial fulfillment of requirements for the NYS Regents mandate of one credit of Art and/or Music for graduation.

Guitar - CRS 814

[Credit 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

Partial fulfillment of requirements for the NYS Regents mandate of one credit of Art and/or Music for graduation.

Orchestra - CRS 820

[Credit 1]

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 898) 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

Course meets the NYS Regents mandate of one credit in the Arts.

Concert Band - CRS 825

[Credit 1]

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 898) 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

Course meets the NYS Regents mandate of one credit in the Arts.

Intro to Recording Technology – CRS 829

This course is designed to give students hands-on experience in recording and mixing with the culminating project being the production of a CD of individual and group assignments. During this course, students will learn the basics of acoustics, microphone selection and technique, use of signal processors, MIDI, digital and analog recording terminology, as well as visit studios and witness the professional skills and attitudes expected in commercial recording.

Prerequisites: None

Grades: 9-12

Wind Ensemble - CRS 827

[Credit 1]

[Credit 0.5]

Continuation of individual skill development in band performance at a superior level. Select ensemble will perform Level 5 and Level 6 music as found in the current NYSSMA Manual. This ensemble offers the opportunity to performing more difficult literature. Performance at concerts/events, home football games and attendance at weekly lesson groups (CR 898) is basic to meeting this criteria. Prereguisites: Previous band experience in which the student has demonstrated superior achievement at a NYSSMA solo and ensemble festivals. An audition will be required for admission into this select ensemble.

Grades: 10-12

Course meets the NYS Regents mandate of one credit in the Arts.

Main Campus

Instrumental/Vocal Lesson - CRS 898

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

Credit earned via ensemble enrollment.

A Cappella Chorus - CRS 830

[Credit 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 898) 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

Madrigal Singers - CRS 841

[Credit 1]

[Credit 1]

Voice production techniques and music reading skill development through representative SATB choral literature are emphasized within this course. Select ensemble will perform Level 5 and Level 6 music as found in the current NYSSMA Manual. This ensemble offers the opportunity to performing 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 820, 825, 827, 830, 832, 834)

Grades: 10-12

Chaminade Girls Chorus - CRS 832 [Credit 0.5]

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 898) is basic to meeting this criteria.

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

Grades: 9-12

Partial fulfillment of requirements for the NYS Regents mandate of one credit of Art and/or Music for graduation. Main Campus

Chorus - CRS 836

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 898) is basic to meeting this criteria.

Prerequisites: Individual audition with the choral director to demonstrate performance skill levels.

Grades: 9-12.

Course meets the NYS Regents mandate of one credit in the Arts (music, art, dance or drama). North Campus

Robert D. Williams Boys Glee – CRS 834 [Credit 0.5]

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 898) is basic to meeting this criteria.

Prereguisites: Individual audition with the choral director for voice classification.

Grades: 9-12 - Main Campus

Performing Arts Courses

Performing Arts Lab (PAL) - CRS 805

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.

Prerequisite: None

Main Campus

Technical Theatre - CRS 815

[Credit 1]

[Credit 1]

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 805 or permission of instructor. **Grades:** 10 - 12

Main Campus

Modern Dance I - CRS 819

[Credit 1]

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

Prerequisites: Successful completion of Creative Movement or instructor permission.

Grades: 10-12.

Arts elective credit (Course also available under PE Department Course# 9819) Main Campus

Main Campus

Modern Dance II - CRS 851

[Credit 1]

Build on skills learned in Modern Dance 1. Scholars develop skills for intermediate through advanced levels of dance. Arts elective credit (Course also available under PE

Department Course# 9851)

Prerequisites: Successful completion of Modern Dance I or instructor permission.

Grades: 11-12 Main Campus

Advanced Dance - CRS 855

[Credit 1]

[Credit 0.5]

[Credit 0.5]

[Credit 0.5]

[Credit 1]

Dance technique and performance with advanced dance training. Individual audition is 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 (Course also available under PE Department Course# 9855)

Main Campus

Creative Movement - CRS 853

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

Arts elective credit (Course also available under PE Department Course# 9853)

Main Campus

Acting I - CRS 808

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

Grades: 9 – 12 Main Campus

Acting II - CRS 817

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

Acting III - CRS 856

Actors move to the most advanced level of acting Preparation for college and professional auditions. **Prerequisites:** Acting II **Grades:** 11-12 Main Campus

Jazz Ensemble - CRS 840

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 820, 825, 827, 830, 832, 834)

Grades: 9-12

Electronic Keyboard Ensemble - CRS 824

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 820, 825, 827, 830, 832, 834)

Grades: 9-12

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 820, 825, 827, 830, 832, 834)

Grades: 9-12



Physical Education Courses

Team Sport - CRS 9050B (Boys) 9050G (Girls) [Credit .5] Develop intermediate to advanced skill level in individual/team sport and fitness, Football, Volleyball, Basketball, Cross Country/Track & Field, Lacrosse, etc. First Aid, CPR Training

Individual Sport, Wellness, & Recreation - CRS 9051 (Coed) [Credit .5]

intermediate to advanced Develop skill level in individual/team sport and fitness. Walking, Ping Pong, Badminton, Cooperative Games, outdoors games. Etc. Basic First Aid, CPR Training. Community/School Service Project. Prerequisite: None

Lifetime Fitness - CRS 9052B (Boys) CRS 9052G (Girls) [Credit .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 9053B (Boys) 9053G (Girls)

[Credit .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)

Introduce and review basic swimming and survival skill. Treading, Front, back, breast, finning, butter flying, Aquatic Games, Interval Training, Distance Swimming, Individual Workouts.

Prerequisite: None.

Lifeguard Training (Coed) - CRS 9055

Earn ARC Lifeguarding certification course. Recognizing

[Credit .5]

[Credit .5]

hazardous situation and prevention of injury. Response to aquatic emergencies and rescue skills.

Prerequisite: Must be able to pass basic swim test



World Languages



** Checkpoint C Level Courses that can assist students in earning New York State Seal of Biliteracy

World Languages Courses -

Italian I - CRS 230

[Credit. 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

Italian 2 - CRS 231

[Credit 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.

Course Requirements: satisfactory notebook, culture project, school examination

Italian 3 - CRS 232

[Credit 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 second year of study.

Course Requirements: satisfactory notebook, two culture projects, Regents examination

AP Italian Language and Culture - CRS 233 [Credit 1.0]

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, Mochiavelli, 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

Italian 5 - CRS 234

This is a continuation of AP Italian Language and Culture, including in-depth studies of literary works introduced in AP Italian Language and Culture. There is an option of applying for 3 college credits from SUNY Albany.

[Credit 1.0]

[Credit 1.0]

Prerequisites: Successful completion of AP Italian Language and Culture. Course Requirements: satisfactory notebook, research paper, school examination

Spanish 1 - CRS 240

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. Prerequisites: None

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



Spanish 2 - CRS 241

[Credit 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.

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

Spanish 3 - CRS 243

[Credit 1.0]

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 second year of study.

Course Requirements: satisfactory notebook, two culture projects, Regents examination

Spanish for Native Speakers (G) - CRS 245

[Credit 1.0]

Main Campus - This course is designed to capitalize on the fluency, 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 also become aware of Hispanic contributions to world civilizations.

Prerequisites: The student must 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).

Course Requirements: satisfactory notebook, culture project, Regents examination

Spanish 4T – Transitional - CRS 247

[Credit 1.0]

This course is a high school level 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 or Spanish for Native Speakers and Checkpoint B Exam. 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.

AP Spanish Language and Culture - CRS 248 [Credit 1.0]

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 Spanishspeaking 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 Checkpoint B Exam. 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.

AP Spanish Literature - CRS 249

[Credit 1.0]

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 it 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 a given text.

Prerequisites: A score of 85% or better in the AP Spanish Language and Culture exam recommended.

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

Spanish 4 – Conversational CRS 238

[Credit 1.0]

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 in-depth review of grammatical structures and writing skills. At the end of the year, students will take an oral and written final examination.





Studio Art Courses -

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

Clothing and Textile/Intern Design CRS 790 Credit 1.0

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 660 [Credit 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

[Credit 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.

Prerequisites: None

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

Studio in Art - CRS 601

[Credit 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 631 [Credit 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.



NFA North Elective Courses

Child Development - CRS 751

[Credit 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 780

[Credit 1.0]

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 750

[Credit 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.



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.

College and Trade School Articulations Agreements **Program Pathway** Auto Technology (awaiting approval) Alfred State College & Rockland Community College Construction Alfred State College & SUNY Delhi **Bryant and Stratton** Cosmetology **Criminal Justice** Bryant and Stratton & Columbia Greene Community College Culinary Affiliated with the New York Restaurant Association Fashion Design **Bryant and Stratton** Bryant and Stratton Graphics Health Occupations Bryant and Stratton Monroe College SUNY Delhi & Alfred State College Welding

Career and Technical NYSED Approved Programs

	and Visual
Communications	Multiple Pathways
English 9	
US History	
Algebra 1	
Liv. Env. Or Earth S	ci. (Lab)
Physical Education	
(Opposite Sci. Lab)	
Foreign Language	
Studio Art 601	
Visual Communica	tions I 631
Digital Studio Art	6011
English 10	
Global I	
Geometry	
Liv. Env. Or Earth S	ci. (Lab)
Physical Education	
(Opposite Sci. Lab)	
Health	
Comprehensive Dr	awing 620
Ceramics I 602	
English 11	
Global II	
Algebra II	
Physical Education	
(Opposite Sci. Lab)	
Chemistry	
(or Sci. elective)	
Ceramics II 603	
English 12	
Government/ Econ	iomics
Physical Education	
Ceramics III 604	

Art Design and Visual Communications Course Descriptions

Digital Studio in Art - CRS 6011

[Credit 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 601

[Credit 1.0]

[Credit 1.0]

[Credit 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

Ceramics 1 - CRS 602

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 and craftsmanship will be stressed.

Prerequisites: Studio in Art

Course Requirements: Completion of projects

Ceramics 2 - CRS 603

Main Campus - 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.

Ceramics 3 - CRS 604

[Credit 1.0]

Main Campus - 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.

Art Design and Visual Communications	Visual Communications Course Descriptions
Multiple Pathways (Continued)	
English 9	Visual Communications & Design I - CRS 631 [Credit 1.0]
US History	Main Campus - This foundation course is the entry-level experience in the Vis Con sequence where the fundamentals of design are introduced
Algebra 1	•What is design? •Why does man create?
Liv. Env. Or Earth Sci. (Lab)	•How do designers create? •How does creativity work?
Physical Education	•Can I improve my creativity?
(Opposite Sci. 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
Visual Communications Design 1 631	as the student transitions from tools that are traditional to tools that are digital.
Digital Studio Art 6011	Basic fundamental and intermediate skills in Adobe Photoshop and InDesign are
	taught from a tutorial perspective, which builds on small steps to increase skill a
English 10	a deeper level
Global I	.Prerequisites: None
Geometry	Course Requirements: Sketchbook and portfolio including projects, research, and
Liv. Env. Or Earth Sci. (Lab)	a final evaluation.
Physical Education	Visual Communication & Design II - CRS 632 [Credit 1.0
(Opposite Sci. Lab)	Main Campus - This intermediate course builds on the successes established in Vi
Health	Com I. Creativity takes a level of commitment. It is in this regard that th
Visual Communications Design II 632	overarching focus of 'being a designer's furthered. Harnessing the creativ
	process, time management, and making deadlines is further supported along with
English 11	tackling higher-order design projects. Adobe Illustrator is introduced as well
Global II	Along with increasing the skill level in using Adobe Photoshop and InDesign
Algebra II	Illustrator rounds out the student designers options in their quest to arrive at the
Physical Education	best design answers. Careers in this field are also discussed as well as portfolio
(Opposite Sci. Lab)	preparation for post-high school educational paths.
Chemistry	Prerequisites: Visual Communication & Design 1
(or Sci. elective)	Course Requirements: Additionally, students are required to maintain a
Visual Communications Design III 633	sketchbook, folder, and portfolio; as well as attend various field experiences.
	Visual Communication & Design III - CRS 673 [Credit 1.0
English 12	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
Government/ Economics	a career in creative media. This course is on the books as Vis Com 3, but we are
Physical Education	collectively known as 'The Fullerton Crew.' Our mission statement: "The
AP Studio 608	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
nd supported. These students take this task se	riously as they set about to meet design needs and put their skills to the test!

design experience. Prerequisites: Visual Communication & Design 1 and 2

Course Requirements: Portfolio generation (online & traditional) will be addressed as well for those students who see themselves furthering this endeavor beyond NFA.

[Credit 1.0]

[Credit 1.0]

[Credit 1.0]

[Credit 1.0]

Painting & Drawing (Continued)	Painting & Drawing Cours
English 9	
US History	Comprehensive Drawing - CRS 620
Algebra 1	Main Campus - The basis of most successful art
Liv. Env. Or Earth Sci. (Lab)	student's ability to draw. This comprehensive co
Physical Education	developing skills necessary for success in advance
(Opposite Sci. Lab)	extensively using a variety of materials. Open to
Foreign Language	Prerequisites: None
Studio Art 601	Course Requirements: Completion of product
	tests.
English 10	Painting & Drawing 1 - CRS 621
Global I	Both Campuses - Serious students who have d
Geometry	drawing and painting experience a variety of
Liv. Env. Or Earth Sci. (Lab)	paints, charcoal, pencil, and crayon. Of con-
Physical Education	individual artistic expression. Consideration wil
(Opposite Sci. Lab)	painting and the works of important artists.
Health	Prerequisites: Studio in Art
Comprehensive Drawing 620	Course Requirements: Completion of sketchboo
Painting & Drawing I 621	
	Painting & Drawing 2 - CRS 622
English 11	Both Campuses -This is an advanced painting co
Global II	seriousness and talent have been demonstr
Algebra II	Considerable emphasis will be placed on coor expression.
Physical Education	Prerequisites : A grade of 85% or higher in Paint
(Opposite Sci. Lab)	Course Requirements: Completion of sketchboo
Chemistry	course nequirements. completion of sketchboo
(or Sci. elective)	Painting & Drawing 3 - CRS 623
Painting and Drawing II	Both Campuses -This course continues the de
	Painting and Drawing 2 as well as provides
English 12	instruction for those students contemplating a
Government/ Economics	emphasis will be placed on the methods, techniq
Physical Education	art and artists.
Painting and Drawing III 622	Prerequisites: Painting & Drawing 2
AP Studio 608	Course Requirements: Completion of sketchboo
	AP Studio Art - CRS 608 Main Campus - This course is a focused, in-dept
	the creative process. It is intended for students
	in the arts. This is a college-level course that p
	work.
	*Assessment by the College Board may qualify a
	Prerequisites: Studio in Art and one other art co
	Course Requirements: Completion of all AP Por
Not an and the second second	
	AND A DECK OF A

se Descriptions

rtistic efforts is the development of course is designed to aid students in ced art courses. Students will draw o all students.

tion work, class assignments, and

demonstrated a sincere interest in media, oil, acrylic and watercolor ncern will be the development of ill be given to theory and history of

ok and painting portfolio

course for students whose interest, rated in the first year of study. ordinating technique with personal

ting & Drawing 1 ok and painting portfolio

development of skills presented in an opportunity for individualized career in the fine arts. Particular ques, and practices of contemporary

ok and painting portfolio

oth study of media, techniques, and ts who wish to pursue serious study prepares the students for advanced

a student for college credit. course

rtfolio Criteria

[Credit 1.0]

Photography Pathway	
English 9	
US History	
Algebra 1	
Liv. Env. Or Earth Sci. (Lab)	
Physical Education	
(Opposite Sci. Lab)	
Foreign Language	
Digital Studio Art 6011	
English 10	
Global I	
Geometry	
Liv. Env. Or Earth Sci. (Lab)	
Physical Education	
(Opposite Sci. Lab)	
Health	
Photography 671	
English 11	
Global II	
Algebra II	
Physical Education	
(opposite Sci. Lab)	
Chemistry	
(or Sci. elective)	
Advanced Photography 672	
English 12	
English 12 Government/ Economics	
English 12 Government/ Economics Physical Education	
English 12 Government/ Economics	
English 12 Government/ Economics Physical Education	
English 12 Government/ Economics Physical Education	
English 12 Government/ Economics Physical Education	-
English 12 Government/ Economics Physical Education	
English 12 Government/ Economics Physical Education	
English 12 Government/ Economics Physical Education	

Photography Course Descriptions

Digital Studio in Art - CRS 6011

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

Photography - CRS 671

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.

Pre-requisites: Digital Studio in Art, Studio in Art, Visual Communications & Design I

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

Advanced Photography - CRS 672

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 school year to expand subject matter choices and composition approaches.

Pre-requisites: CRS 671 Photography

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

AP Studio Art - CRS 608

[Credit 1.0]

[Credit 1.0]

[Credit 1.0]

[Credit 1.0]

Main Campus - This course is an 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

Auto Body Repair Pathway	Auto Body Repair Course Descriptions
English 9	Basic Auto Body - CRS 722 [Credit 0.5]
US History	Main Campus - Students entering this course should be considered a sequence in
Algebra 1	Occupational Education and have a strong interest in auto body repair or vehicle
Liv. Env. Or Earth Sci. (Lab)	maintenance. Good reading skills and mature work behavior is a must. Instruction will
	include:
Physical Education (Opposite Sci. Lab)	1. Auto body safety and work attitudes
	2. Career opportunities
Foreign Language	3. Basic auto body repair materials, and repair procedures.
Required Art Credit	4. Basic hand tools and dolly repairs
	Practical application will be done on test panels, not live autos. This course will not include
English 10	student-owned vehicle repair and repainting.
Global I	Prerequisites: None
Geometry	Course Requirements : Students should expect to get dirty, and use of appropriate
Liv. Env. Or Earth Sci. (Lab)	occupational clothing is required.
Physical Education	
(Opposite Sci. Lab)	Auto Body 1 - CRS 702[Credit 2.0]
Health	Main Campus - This course is intended for the student who is seriously considering Auto
Basic Auto Body 722	Body Repair and Refinishing as a career. The course will require a two-period time block for
	a full year.
English 11	The course will include:
Global II	1. Auto Body Shop practical, appropriate work behavior, attitude and career opportunities
Algebra II	2. Automotive Repair Welding Systems. Oxyacetylene, MIG and Resistance Spot Welding
Physical Education	3. Practical application of Auto Body repair materials and repair procedures for metal,
(Opposite Sci. Lab)	fiberglass, and plastic.
Chemistry	4. Advanced application of abrasives with air and electrical power tools
(or Sci. elective)	5. Removal, repair, and replacement of Auto Body panels
Auto Body I -702	6. Introduction to painting and refinishing materials and techniques
(2 Periods)	Prerequisites: Basic Auto Body #722
Auto Body I Lab	Course Requirements: Students must provide suitable work clothes and work-type shoes.
	Auto Body 2 - CRS 703 [Credit 2.0]
English 12	Main Campus - This course is intended to further prepare the student for Auto Body Repair,
Government/ Economics	to accept entry-level employment in the field or secondary education in auto body. Full-
Physical Education	year 2 periods a day, every day. The second-year instruction will stress skills such as:
Auto Body II 703	1. Advanced repair of sheet metal, fiberglass, and plastics
(2 Periods)	2. Collision estimating and basic frame straightening for autos
Auto Body II Lab	3. Advanced paint systems as used on modern cars and light trucks, including acrylic
Optional – Internship/ Cap Stone	enamel, polyurethane enamels, epoxies for spot, panel, and overall repainting; base
763 and 764	coat/clear coat technology
	Prerequisites: Auto Body 1 #702
	Internship/Cap Stone Project - CRS 763 & 764 [Credit 0.5 and 1.0]
	Mentor/Mirror/ Job shadow professionals in the field.
	Make connections for YOUR SUCCESSFUL Career in your area of study.
	Prerequisites: CRS 722 & 702
	Course Requirements: Students will be required to prepare a project and do a precentation

Course Requirements: 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
English 9
US History
Algebra 1
Liv. Env. Or Earth Sci. (Lab)
Physical Education
(Opposite Sci. Lab)
Foreign Language
Required Art Credit
English 10
Global I
Geometry
Liv. Env. Or Earth Sci. (Lab)
Physical Education
(Opposite Sci. Lab)
Health
Auto Technology 1 721
English 11
Global II
Algebra II
Physical Education
(Opposite Sci. Lab)
Chemistry
(or Sci. elective)
Auto Technology 2 700
(2 Periods)
Auto Technology 2 Lab
English 12
Government/ Economics
Physical Education
Auto Technology 3 701
(3 Periods)
Auto Technology 3 Lab
5

Automotive Technology Course Descriptions

Auto Technology 1 - CRS 721

[Credit 0.5]

[Credit 2.0]

[Credit 3.0]

Main Campus - This course is designed for students who know little about cars. Basic Auto Technology provides detailed information on how basic automotive systems work, how to maintain automobiles and do simple repairs. Designed for beginners, 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 inspection and repair, and exhaust inspection, repair, engine oil, and fluids. When 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 come!

Prerequisites: None

Course Requirements: Students should expect to get hands dirty and use appropriate occupational clothing.

Auto Technology 2 - CRS 700

Main Campus – This course is designed for the serious automotive student after 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 testing equipment is stressed.

Prerequisites: Basic Auto Mechanics #721

Course Requirements: Students must provide suitable work clothes and work shoes.

Auto Technology 3 - CRS 701

Main Campus - The second year builds upon material learned in Occupational Auto 1, as well as an introduction to more advanced automotive technology. Vehicle driveline, suspension systems, wheel alignment, engine diagnosis, electronic ignition, fuel injection, and an introduction to computerized engine controls are covered 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 a post-secondary education in Automotive Technology.

Prerequisites: Completion of Auto Mechanics I #700

Course Requirements: Students must provide suitable work clothes and work shoes. Completion of assignments.

Internship/Cap Stone Project - CRS 763 & 764 [Credit 0.5 and 1.0] Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR SUCCESSFUL Career in your area of study. Prerequisites: CRS 721 & 700 Course Requirements: Students will be required to prepare a project and do a presentation at the end of the course.

* NYSED APPROVED PROGRAM (Awaiting Approval)

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

*** Articulation Agreement with Rockland Community College & Alfred State College

Barbering Pathway	
English 9	
US History	
Algebra 1	
Liv. Env. Or Earth Sci. (Lab)	
Physical Education	
(Opposite Sci. Lab)	
Foreign Language	
Required Art Credit	
English 10	
Global I	
Geometry	
Liv. Env. Or Earth Sci. (Lab)	
Physical Education	
(Opposite Sci. Lab)	
Health	
English 11	
Global II	
Algebra II	
Physical Education	
(Opposite Sci. Lab)	
Chemistry	
(or Sci. elective)	
Barbering I 795	
(2 periods)	
Barbering I Lab	
English 12	
Government/ Economics	
Physical Education	
Barbering II 796	
(2 periods)	
Barbering II Lab	

Barbering Course Descriptions

Barbering I - CRS 795

[Credits 1.0]

Main Campus - This course includes the practice and study of the fundamentals of soft 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 containing eBooks, and the ability to notetaking, 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 barbershop is required to advance to Barbering II.

Prerequisites: None

Course Requirements: A three ring binder

Barbering II - CRS 796

[Credits 2.0]

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 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 notetaking, 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 barbershop is required to be eligible to sit for the New York State Licensing Examination.

Prerequisites: 250 hours, Apprenticeship, Barbering I

Course Requirements: Purchase of towels, water bottle, shaving cream, shampoo cape, massage cream, cleansing cream, and shampoo are necessary extra supplies for the New York State Licensing exam.



Pathway English 9	Introduction to Computer Science - CRS 418 [Credit
	Introductory computer science course of the basics designing a web page and
US History	fundamentals of computer science. Students will learn the basics of HTML, CSS used i
Algebra 1	front-end web development. The course gives students the opportunity to explore ar
Liv. Env. Or Earth Sci. (Lab)	create in coding languages and develop an interest in computer science that will foste
Physical Education (opposite Sci. Lab)	further careers in technology. Prerequisites: None
Foreign Language	Course Requirements: Participation in hands on activities and completion of assignments
Introduction to Computer Science 418	Motion Graphics and Animation for Web - CRS 419 [Credit
Motion Graphics and Animation for Web 419	Students will get an introduction to the basic principles of animation as they use A After Effects, Adobe Animate and CSS to create digital animations. Students will com graphics, sound, text and video to create and deliver interactive media for web and ga applications.
English 10	Prerequisites: None
Global I	Course Requirements : Participation in hands on activities and completion of assignments
Geometry	
Liv. Env. Or Earth Sci. (Lab)	Web Design I - CRS 684 [Credit
Physical Education (opposite	Web Design I is a project-based course that teaches students how to build their own
Sci. Lab)	pages and further develops their skills from "Fundamentals of Computer Science and
Health	 Design". Students will learn coding languages HTML and CSS and begin developments will understand the begins of UN
Web Design I 684	interactivity in their sites using JavaScript. Students will understand the basics of UX responsive design and will create their own live websites to serve as portfolios. By the
English 11	of this course, students will be able to explain how web pages are developed and vie on the Internet, analyze and fix errors through debugging, and create multi-page webs
English 11 Global II	Prerequisites: None
	Course Requirements: Participation in hands on activities and completion of assignments
Algebra II	
Physical Education (opposite	Programming-JavaScript and Python - CRS 685 [Credit 1
Sci. Lab)	Programming with JavaScript and Python is an introduction to computer programm
Chemistry	Students will develop logical thinking and problem-solving skills using JavaScript
(or Sci. elective)	Python. Once students complete Programming using JavaScript and Python , they will
Programming-JavaScript and	learned material equivalent to a semester college introductory course in Computer Scie
Python 685	Prerequisites : Web Design I Course Requirements: Participation in hands on activities and completion of assignment
English 12	course requirements. Tarticipation in natios on activities and completion of assigning
English 12	-
Government/ Economics	-
Physical Education	
	_

[Credit 1.0]

[Credit 0.5]

[Credit 1.0]

[Credit 2.0]

[Credit 3.0]

Construction Pathway	Constru
English 9	
US History	Design and Drawing for Production
Algebra 1	The Design and Drawing for Produce drawing techniques, the different st
Liv. Env. Or Earth Sci. (Lab)	through design. Projects will be cent
Physical Education	3-dimensional modeling skills using
(Opposite Sci. Lab)	all forms of technical drawing and
Foreign Language	architectural field, engineering de
Design & Drawing 660	fundamental course as early as poss
	Prerequisites: None
English 10	
Global I	Introduction to Carpentry - CRS 735
Geometry	Main Campus - Course will introduc
Liv. Env. Or Earth Sci. (Lab)	Projects will be tailored to inco
Physical Education	construction.
(Opposite Sci. Lab)	Prerequisites: None
Health	Course Requirements: Completion of
Intro to Carpentry 735	
(Not required/	Architectural Drafting and Design -
recommended)	Main Campus - The Architectural Dra
Architecture Design 664	structures and 3-dimensional modeli floor plan drafting, 3D model making
	the history of architectural design ar
English 11	structures.
Global II	Prerequisites: Design & Drawing for
Algebra II	· · · · · · · · · · · · · · · · · · ·
Physical Education	Carpentry 1 - CRS 740
(Opposite Sci. Lab)	Main Campus - A First-year course de
Chemistry	a career. This is an introduction to c
(or Sci. elective)	Students will learn to read and inter
Carpentry I 740	hand tools and portable power too
(2 periods)	carpentry such as framing-floor, wal
Carpentry I Lab	Prerequisites: None
	Course Requirements: Students m
English 12	Students must be willing to work ou
Government/ Economics	Composition 2 CDC 744
Physical Education	Carpentry 2 - CRS 741
Carpentry II 741M	Main Campus - Second-year course for Students will continue to refine skill
(3 periods)	carpentry skills; such as drywall insta
Carpentry Lab	finish floor installation.
	Prerequisites: Building Construction
Carpentry II Lab	Course Requirements: Students mu
Ontional Internation (Car Ci	Willingness to do physical labor and
Optional – Internship/ Cap Stone 763 and 764	
705 dilu 704]

*NYSED APPROVED PROGRAM

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

*** Articulation Agreement with Alfred State & SUNY Delhi

uction Course Descriptions

- CRS 660

action (DDP), course of study, are focused on technical tyles of drafting, and promote creative problem solving tered on a variety of drawing styles, the design process, AutoCAD, and model making. Assignments will include d presentations. Students who plan to enter into the esign or other technical studies should consider this sible.

ce Basic Woodworking skills using hand machine tools. orporate various methods of furniture and cabinet

of assignments

CRS 664

afting and Design course of study is focused on residential ling skills. Projects will be centered on the design process, g, and sustainable building methods. Students will study nd techniques used in designing and planning residential

r Production CRS 660

lesigned for students that intend to enter construction as carpentry as related to building and construction trades. pret blueprints, estimate building costs, safe handling of ols, and techniques and processes involved in "rough" Ill roof, sheeting, roofing, and siding.

must provide suitable work clothes and work shoes. utside.

for students that intend to enter construction as a career. lls developed in the first year. Also, they will learn finish allation and finishing trim door and window installation,

n/Carpentry 1 CRS 740

ust provide suitable work clothes and safety-type shoes. d work outside required.

Cosmetology Pathway	Cosmetology Course Descriptions
English 9	
US History	Introduction to Cosmetology - CRS 794 [Credits 0.5]
Algebra 1	Main Campus - This is a ½-year hands-on course in the basics of cosmetology. Students will
Liv. Env. Or Earth Sci. (Lab)	explore roller sets, finger waving, permanent wave wrapping, pin curls, thermal curling
Physical Education	techniques, hair styling, and paraffin hand wax. Also, the students will practice soft skills for
(Opposite Sci. Lab)	entry-level employment. Our theory includes the history of cosmetology, life skills, professional image and communication skills. Students will be required to take notes,
Foreign Language	processional image and communication skins. Students will be required to take notes,
Required Art Credit	Prerequisites: None
	Course Requirements: Complete practical and theory assignments. Attendance is critical to
English 10	ensure students success.
Global I	
Geometry	Cosmetology I - CRS 704 [Credits 4.0]
Liv. Env. Or Earth Sci. (Lab)	Main Campus - This course includes the practice and study in the fundamentals of manicuring, shampooing, styling, permanent waving, chemical texture services, haircutting,
Physical Education	and soft skills necessary for entry-level employment. We stress the importance of sanitation,
(Opposite Sci. Lab)	sterilization, and personal and public hygiene. A passing grade, 500 hours, and complete
Health	notebook are necessary advance to Cosmetology II.
Into to Cosmetology 794	Prerequisites: None
into to cosmetology 754	Course Requirements: Purchase of Kit (Approximately \$250.00), three ring binder with 20
English 11	dividers
Global II	
Algebra II	Cosmetology II - CRS 705 [Credits 4.0] Main Campus - The second year provides further mastery of the basic skills with an emphasis
Physical Education	on general science, nail enhancement procedures, skin care, hair color, advanced hair
(Opposite Sci. Lab)	cutting, preparing for employment, and basic skills necessary to pass the New York State
Chemistry	licensing examinations. The weekly senior clinic offers the students an opportunity to
(or Sci. elective)	practice their skills in a real work environment. Completion of senior cosmetology requires
Cosmetology I 704	a notebook, 500 hours, and a passing grade. Upon this completion, students will be eligible
(4 periods)	to sit for the New York State Licensing Exams.
Cosmetology I	Prerequisites: 500 hours completed Cosmetology I and passing grade cosmetology I Course Requirements: Update Cosmetology Kit, Three Ring Binder with 20 Dividers
Cosmetology I	Course Requirements. Opuate cosmetology Rt, Three Ring Binder with 20 Dividers
Cosmetology I	Internship/Cap Stone Project - CRS 763 & 764 [Credit 0.5 and 1.0]
	Mentor/Mirror/ Job shadow professionals in the field. Make connections for YOUR
English 12	SUCCESSFUL Career in your area of study.
Government/ Economics	Prerequisites: CRS 704
Physical Education	Course Requirements: Students will be required to prepare a project and do a
Cosmetology II 705	presentation at the end of the course.
(4 periods)	
Cosmetology II	
	4

*NYSED APPROVED PROGRAM

Cosmetology II Cosmetology II

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

*** Articulation Agreement with Bryant and Stratton

Criminal Justice & Security	Criminal Justice & Security Course Descriptions
and Pathway	
English 9	Introduction to Criminal Justice - CRS 714 [Credit 1.
US History	North Campus
Algebra 1	Experience how a Criminal Mind operates
Liv. Env. Or Earth Sci. (Lab)	 Participate in simulations and labs Discover the justice system (police courts corrections services)
Physical Education	Prepare for a Career in Security, Law, and Forensics
(Opposite Sci. Lab)	Prereguisite: None
Foreign Language	Course Requirements: Completion of assignments
Required Art Credit	
English 10	Criminal Procedures/Security - CRS 716 [Credit 1.
Global I	North Campus
Geometry	Apply Real Life Criminal Justice career skills
Liv. Env. Or Earth Sci. (Lab)	Fingerprint, Criminal photography, Crime scene processing
Physical Education	Examine Drawing and Court presentations for evidence Solve the Gringel
(Opposite Sci. Lab)	 Solve the Crime! New York State Security Certification and Job Opportunities!
Health	Prerequisite: Introduction to Criminal Justice
Intro. to Criminal Justice 714	Course Requirements: Completion of assignments
intro: to criminal Justice /14	
English 11	Internship/Cap Stone Project - CRS 763 [Credit 0.
Global II	North Campus
Algebra II	Mentor/Mirror/ Job shadow professionals in the field Similar Community Community Community Community
Physical Education	 Explore Careers as Police Officer, 911 Dispatcher, and Security Guard Make connections for YOUR SUCCESSFUL Career in Law Enforcement or Security!
(Opposite Sci. Lab)	Prerequisites: Law Enforcement /Security pathway- Introduction to Criminal Justice #714
Chemistry	Criminal Procedures#716
(or Sci. elective)	Course Requirements: Students will be required to prepare a project and do a presentation
Criminal Procedure 716	at the end of this course.
English 12	
Government/ Economics	1
Physical Education	1
Co-op Internship/Cap Stone	1
Project 763	

*NYSED APPROVED PROGRAM

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

*** Articulation Agreement with Bryant and Stratton & Columbia Greene Community College

Culinary Arts and Restaurant Management Pathway

English 9	Culinary Arts and Rest	aurant Management Cour	se Descriptions
US History	-		
Algebra 1	1		
Liv. Env. Or Earth Sci. (Lab)	Introduction to Food Service	CRS 780	[Credit 1.0]
Physical Education	 Main Campus Build skills toward success in NFA 	Culinary Arts Program	
(Opposite Sci. Lab)	 Build skills toward success in NFA Understand Culinary Managemen 		
Foreign Language	Develop skills to prepare healthily		
Required Art Credit	Prerequisites: None	U III U	
•	Course Requirements: Completion	of assignments	
English 10	1		
Global I	Culinary Career Choice	CRS 778	[Credit 2.0]
Geometry	- Main Campus		
Liv. Env. Or Earth Sci. (Lab)	 This is a 2-period course Basic food preparation knowledge 	and skills	
Physical Education	Instruction by Culinary Experts in		food service equipment
(Opposite Sci. Lab)	Course consists of both a lecture a	•	
Health	Preparation for college-level Culin	-	
Intro to Food Service 780	Prerequisites: Course 780		
	Course Requirements: Completion	of assignments	
English 11	Advanced Culinary Arts	CRS 733	[Credit 3.0]
Global II	Main Campus	CN3 735	
Algebra II	This is a 3-period course		
Physical Education	Craft amazing and fun food using	flames, knives, and creative of	chemistry
(Opposite Sci. Lab)	Work with professional chefs to ca	reate gourmet foods, cakes, a	and pastries
Chemistry	Develop entire food plans for unic		
(or Sci. elective)	• Course consists of both a lecture a		
Culinary Career Choice 778	Prepares students for job ready, d	domestic cooking and higher	education at Culinary and
(2 Periods)	Hospitality Schools – Prerequisites: CRS 780 & CRS 778 (Intro to Food and Culinary C	areer Choice)
Culinary Career Choice Lab	Course Requirements: Completion		
English 12	Internship/Cap Stone Project	CRS 787 & 789	[Credit 0.5 and 1.0]
Government/ Economics	Mentor/Mirror/ Job shadow profes		
Physical Education	Make connections for YOUR SUCCES	SSFUL Career in the Food	Industry.
Advanced Culinary Arts 733	Prerequisites: CRS 780 & 778	I he required to property and	alast and do a successful
(3 Periods)	 Course Requirements: Students wil at the end of this course. 	ii be required to prepare a pr	oject and do a presentation
Advanced Culinary Arts Lab			
Advanced Culinary Arts Lab			
Optional – Internship/ Cap Stone			
780 and 778			

*NYSED APPROVED PROGRAM

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

*** Articulation Agreement Affiliated with the New York Restaurant Association

63

Electronics and Computer Repair Course Description

Basic Electricity - CRS 726

Main Campus - This course covers fundamentals of electricity and electronics. Topics covered will be basic housing wiring, electronics, low-voltage applications, tool identification and application, measuring, and basic audio systems. Students will make an electronics project and practice house wiring.

Prerequisites: None

Course Requirements: Completion of assignments

Computer Repair - CRS 746

Main Campus - This course is intended for the student who may be considering computer repair, computer science, or the electronics field as a career goal. This course will include some basic electronics theory, basic digital theory in addition to basic computer theory. This course will include troubleshooting techniques for computers, printers, and other peripheral devices.

Prerequisites: None - Basic Electricity #726 is recommended Course Requirements: Completion of assignments

Electronics 1 - CRS 706

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 residential walls to emphasize the application of schematic diagrams, proper wiring installation, and other test equipment.

Prerequisites: None

Course Requirements: Completion of assignments

Electronics 2 - CRS 707

Credit 1.01 Main Campus - This course continues the work and experience gained in Electronics 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 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 components. **Prerequisites:** Electronics

Course Requirements: Completion of assignments

English 11 Global II Algebra II

Electronics and Computer

Liv. Env. Or Earth Sci. (Lab)

Liv. Env. Or Earth Sci. (Lab)

Repair Pathway

Physical Education

(Opposite Sci. Lab) Foreign Language

Required Art Credit

Physical Education (Opposite Sci. Lab)

Computer Repair 746

English 9

US History

Algebra 1

English 10

Geometry

Global I

Health

Physical E	ducation
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(Opposite Sci. Lab)

Chemistry

(or Sci. elective)

Electronics I 706

English 12

Government/ Economics Physical Education Electronics 707

Optional – Internship/ Cap Stone 763 and 764

[Credit 1.0]

[Credit 0.5]

[Credit 1.0]

Emergency Mangement Pathways	Emergency Medical Services /Fire Science Course Descriptions
English 9	
US History	Introduction to Emergency First Responder - CRS 783 [Credit 1.0]
Algebra 1	North Campus
Liv. Env. Or Earth Sci. (Lab)	 How to respond to medical, fire or mass casualty events Learn survival and rescue skills
Physical Education	Learn how to prepare for disasters
(Opposite Sci. Lab)	_ Prerequisite: None
Foreign Language	Course Requirements: Completion of assignments
Studio Art	
	Emergency and Disaster Management - CRS 787[Credit 1.0]
English 10	North Campus
Global I	Learn emergency management skills
Geometry	Learn emergency communication skills. Emergency Dispatch Cortification
Liv. Env. Or Earth Sci. (Lab)	 Emergency Dispatch Certification Prerequisite: Introduction to Emergency First Responder
Physical Education	Course Requirements: Completion of assignments
(Opposite Sci. Lab)	
Health	Emergency Medical Services -CRS 784 or Fire Science - CRS 785 [Credit 1.0 Each]
Introduction to Emergency	North Campus
First Responder 783	 Learn First Aid, CPR, and AED earn Certificates
	Explore EMT and Paramedic Careers
English 11	Learn about firefighting careers
Global II	 Learn the science behind fire Evaluate firsting againment and skills
Algebra II	 Explore firefighting equipment and skills Prerequisite: Introduction to Emergency First Responder and Emergency and Disaster
Physical Education	Management
(opposite Sci. Lab)	Course Requirements: Completion of assignments and certification tests
Chemistry	
(or Sci. elective)	Internship/Cap Stone Project - CRS 763 [Credit 0.5]
Emergency and Disaster	North Campus
Management 787	Mentor/Mirror/ Job shadow professionals in the field
	Explore Careers in EMS and Fire Science Presequiritee: Introduction to Emergency Despense and Emergency Disactor Management
English 12	 Prerequisites: Introduction to Emergency Response and Emergency, Disaster Management Course Requirements: Students will be required to prepare a project and do a presentation
Government/ Economics	at the end of this course.
Physical Education	
Emergency Medical Services	-
784 or Fire Science 785	
Internship/Capstone Project	-
763	
	-

Architecture & Engineering	Architecture & Engineering Course Descriptions
Pathway	Design and Drawing for Production CRS 660 [Credit 1.0]
English 9	The Design and Drawing for Production (DDP) course of study are focused on technical
US History	drawing techniques, the different styles of drafting, and promote creative problem solving
Algebra 1	through design. Projects will be centered on a variety of drawing styles, the design process,
Liv. Env. Or Earth Sci. (Lab)	3-dimensional modeling skills using AutoCAD, and model making. Assignments will include
Physical Education	all forms of technical drawing and presentations. Students who plan to enter into the
(Opposite Sci. Lab)	architectural field, engineering design or other technical studies should consider this
Foreign Language	fundamental course as early as possible. Prerequisites: None
Design & Drawing 660	rierequisites. None
	Introduction to Carpentry CRS 735 [Credit 0.5]
English 10	Main Campus - Course will provide an introduction to Basic Woodworking skills using hand
Global I	machine tools. Projects will be tailored to incorporate various methods of furniture and
Geometry	cabinet construction.
Liv. Env. Or Earth Sci. (Lab)	Course Requirements: Completion of assignments
Physical Education	
(Opposite Sci. Lab)	Engineering Drafting and DesignCRS 662[Credit 1.0]Main Campus - The Engineering Drafting and Design course involves advanced technical
Health	design and is focused on the design process and prototyping skills. Projects will be centered
Intro. To Carpentry 735	on the processes of research, brainstorming, sketching, template design, 3D modeling using
	Autodesk software, and 3D printing fundamentals. Students will study everyday physical
	objects and mechanical devices, attempting to replicate or make improvements to these
English 11	items. Students will develop and test a variety of 3-dimensional models made both by hand
Global II	and with 3D printers.
Algebra II	Prerequisites: CRS 660 - Design & Drawing for Production
Physical Education	Architectural Drafting and Design CRS 664 [Credit 1.0]
(Opposite Sci. Lab)	Architectural Drafting and DesignCRS 664[Credit 1.0]Main Campus - The Architectural Drafting and Design course of study is focused on residential
Chemistry	structures and 3 dimensional modeling skills. Projects will be centered on the design process,
(or Sci. elective)	floor plan drafting, 3D model making, and sustainable building methods. Students will study
Engineering Design 662M	the history of architectural design and techniques used in designing and planning residential
	structures.
English 12	Prerequisites: CRS 660- Design & Drawing for Production
Government/ Economics	
Physical Education	Carpentry 1 - CRS 740 [Credit 2.0] Main Campus - This is an introduction to carpentry as related to building and construction
Architecture Design 664	trades. Students will learn to read and interpret blueprints, estimate building costs, safe
Carpentry I 740	handling of hand tools and portable power tool and techniques and processes involved in
(2 Periods)	"rough" carpentry such as framing- floor, wall roof, sheeting, roofing, and siding.
Carpentry I Lab	Course Requirements: Students must provide suitable work clothes and work
Optional – Internship/ Cap Stone	Shoes. Students must be willing to work outside.
763 and 764	

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Advanced Clothing	
Construction 613m	
Advanced Clothing	
Construction Lab	

Fashion Course Descriptions

lothing and Textile/Intern Design - CRS 790

Main Campus- The content of this course includes the cultural and historical aspects of extiles 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.

Clothing Construction - CRS 614

Main Campus- This course allows students to explore designs of clothing to create a clothing line. All facets of promoting a clothing line are researched and explored. 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 during a runway fashion show during the school year.

Prerequisites: Clothing, and Textile Design

Course Requirements: Successful completion of a clothing line. The student must purchase patterns, fabric, and notions.

Advanced Clothing Construction - CRS 613

Campus- This course is a continuation of clothing construction. Students are required monstrate independent efforts to create a larger and more detailed clothing line then in Clothing Construction. Students in this level course will learn to play a leadership n the production and running of the Newburgh Free Academy fashion show.

Prerequisites: Clothing Construction

ourse Requirements: Portfolio and final examination/project.

*NYSED APPROVED PROGRAM

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

*** Articulation Agreement with Bryant and Stratton

[Credit 2.0]

[Credit 1.0]

[Credit 1.0]

Graphic Communication Pathway	Graphics Course Descriptions
English 9	
US History	Basic Graphic Arts - CRS 725 [Credit 0.5]
Algebra 1	Main Campus - This course provides general knowledge and procedures in the Graphic Arts
Liv. Env. Or Earth Sci. (Lab)	field and how it relates to the business world. The student is introduced to Computer Design
Physical Education	on the Macintosh computer, using cutting-edge software including, Photoshop, In-Design,
(Opposite Sci. Lab)	and Microsoft Word. Many projects are done in class. Prerequisites: None
Foreign Language	Course Requirements: Completion of assignments
Required Art Credit	
English 10	Graphics 1 - CRS 708 [Credit 1.0]
Global I	Main Campus - This course is intended for students who are interested in the Graphic Arts field and its relationship with the business world. This course will cover Typography, Desktop
Geometry	Design, Computer Design, Graphics Manipulation, and copy preparation. Turning Words,
Liv. Env. Or Earth Sci. (Lab)	Images, into media Masterpieces all with the Macintosh computer. Learning to market
Physical Education	ourselves with cutting edge software Inc. Photoshop, In-Design, Microsoft Word
(Opposite Sci. Lab)	Prerequisites: None
Health	Course Requirements: Completion of assignment.
Basic Graphics 725m	
	Graphics 2 - CRS 709 [Credit 1.0]
English 11	Main Campus - This course is intended for students who are seriously interested in the
Global II	mastering of computer technologies on the Macintosh platform. This course will cover
Algebra II	Typography, Desktop Design, and Computer Design, Graphics Manipulation, copy
Physical Education	preparation, resume, and many other helpful applications towards marketing yourself.
(Opposite Sci. Lab)	Turning Words, Images, into media Masterpieces all using the Macintosh computer, learning to market ourselves with cutting edge software Inc. Photoshop,
Chemistry	In-Design, Microsoft Word, and I-Movie Many projects are done in class.
(or Sci. elective)	Prerequisites: Completion of Graphic Arts 1
Graphics Arts I	Course Requirements: Completion of assignments
English 12	
Government/ Economics	
Physical Education	
Graphic Arts II	

*NYSED APPROVED PROGRAM

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

*** Articulation Agreement with Bryant and Stratton

Personal Fitness Foundations	Personal Fitness Foundations Course Descriptions
Pathway	
English 9	
US History	Advanced Personal Fitness - CRS 7501 [Credit 1.0]
Algebra 1	Main Campus - The main focus at the start of this course will be on diet and fitness (learn
Liv. Env. Or Earth Sci. (Lab)	to prepare healthy foods). Students will learn the basic study of the structure and function
Physical Education	of the human body and its response to nutrition and specific exercise. The students will each
(Opposite Sci. Lab)	be able to demonstrate a basic understanding of the fundamental principles of anatomy
Foreign Language	and physiology by the end of this course. Prerequisites: None
Required Art Credit	Course Requirements: Participation in hands on activities and completion of assignments.
English 10	
Global I	Health and Fitness Foundations I - CRS 7502 [Credit 1.0]
Geometry	Main Campus - The main focus will be on personal training and sport/recreationa
Liv. Env. Or Earth Sci. (Lab)	management. Students are expected to prepare and participate in creating sports
Physical Education	 information, event and facility planning, program promotion, media relations and sports finance. The students will begin participating in the hands-on education-assistance
(Opposite Sci. Lab)	program, working with the District Athletic Trainer in preventative services, emergency
Health	care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries.
Advanced Personal Fitness	Prerequisites: CRS 7501 Advanced Personal Fitness
7051	Course Requirements: Participation in hands on activities and completion of assignments.
English 11	
Global II	Health and Fitness Foundation II - CRS 7503 [Credit 1.0]
Algebra II	 Main Campus - The final component of this program will have each student take an in-depth focus to a specific field of interest that was discovered from Health and Fitness Foundations
Physical Education	1. Students must take part in the work in a work-study (education-assistance) environment
(Opposite Sci. Lab)	based on career goals of each student. Students are required by the end of this course to
Chemistry	take the for Personal Training, First-Aid, CPR, and AED Certifications.
(or Sci. elective)	Prerequisites: CRS 7501 and 7502
Health & Fitness Foundations I	Course Requirements: Complete
7502	
(2 Periods)	
Health & Fitness Foundations I	
7502 Lab	
English 12	
Government/ Economics	
Physical Education	
Health & Fitness Foundations II	
7503	
(2 Periods)	
Health & Fitness Foundations II	
7503 Lab	

Alternative Medicine Pathway English 9

US History	Alternative Medicine Course Description
Algebra 1	Principals of Natural Health- 925 [Credit 0.5]
Liv. Env. Or Earth Sci. (Lab)	In this course, we will discuss the various stages of health and illness, and you will discover that true
Physical Education (opposite	health means wholeness of the mind, body, and spirit. In this course, we will explore in depth the s
Sci. Lab)	global traditions: Ayurvedic medicine of India, the indigenous medicine of Central and South Americ
Foreign Language	 Native North American healing, the healing traditions of South Africa, traditional Chinese medicin and Unani medicine of Eastern Europe. We will review a variety of methods like diet, hydrotherap
Studio Art	positive attitude, relaxation, yoga, chiropractic, natural remedies and more; you will explore a way t
	achieve total health in mind, body, and spirit.
	Prerequisites: None
English 10	Course Requirements: Participation in hands on activities and completion of assignments
Global I	Meditation – 926 [Credit 0.5]
Geometry	Focuses on intentionally training a person's attention and concentration. Meditation practices have been used by sultures around the world for
Liv. Env. Or Earth Sci. (Lab)	 been used by cultures around the world for thousands of years. In this certificate program, you w explore the many meditation techniques that can be used to support the mind-body connection ar
Physical Education (opposite	promote healing and wellness. This course will guide you as you discover how the practice of
Sci. Lab)	meditation can be used to increase mindfulness, reduce stress, deal with pain and illness, and suppo
Health	overall well-being.
Principals of Natural Health	Prerequisites: None
	Course Requirements: Participation in hands on activities and completion of assignments
Meditation	Evidence-Based Medicine – 927 [Credit 0.5]
	In this course, the focus is on all animal life depends on the existence of plants. They are necessary to produce Oxygen, to supply food and to provide shelter. When the early man started to look for a cur
English 11	for his ailments, it was towards plants that he turned. Today 75% of Medicines around the world a
Global II	derived from herbs. In this course, we will guide students through research and discovery the wor
Algebra II	of medicines and the methods in which they are applied.
Physical Education (opposite	Prerequisites: Principals of Natural Health
Sci. Lab)	Course Requirements: Participation in hands on activities and completion of assignments Acupressure Course – 928 [Credit 0.5]
Chemistry	Acupressure course – 928 [Credit 0.5] Acupressure is the application of pressure to the body to enhance the flow of energy. This therapy
(or Sci. elective)	 widely used in China where more emphasis is given to people's responsibility for their own health
Evidence-Based Medicine	than it is in the Western world. It has the same principles as Acupuncture, but the pressure is applie
Acupressure Course	directly to the Acupoints of the body mainly by using the hands, fingers, thumbs or knuckle
- -	Stimulation of the body's meridian system by touch is perhaps one of the oldest and most effective
English 12	healing systems.
Government/ Economics	 Prerequisites: Prerequisites: Principals of Natural Health Course Requirements: Participation in hands on activities and completion of assignments
Physical Education	Business in Health and Healing - 929 [Credit 0.5]
Business in Health and Healing	
Busiliess in Health and Healing	personal fulfillment, control over your own life, and incredible financial rewards. In this innovative
	program, you will learn how to make your dreams of building a health-related business a reality. The
	program will guide you through the steps to building your own business. You will explore the different
	options for creating your business and learn how to develop a successful business plan. You will ga
	information about financing your business, and see how to create an effective marketing strategy thelp ensure your success
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Course Requirements: Participation in hands on activities and completion of assignments

Nutrition Pathways	
English 9	
US History	
Algebra 1	
Liv. Env. Or Earth Sci. (Lab)	
Physical Education	
(Opposite Sci. Lab)	
Foreign Language	
Studio Art	
English 10	
Global I	
Geometry	
Liv. Env. Or Earth Sci. (Lab)	
Physical Education	
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(Opposite Sci. Lab) Health	
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(Opposite Sci. Lab) Health Principals of Nutrition and Wellr English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Chemistry (or Sci. elective) Nutritional Management	

Nutrition Course Pathway

Principals of Nutrition and Wellness – 922

[Credit 1.0]

Nutrition and Wellness is an applied laboratory-based course designed to educate students about food preparation and the functional components of foods. Students also learn about food safety, sanitation, and students complete the industry recognized Food Handlers Certificate. Through an examination of food labels, dietary guidelines, meal planning, and dietary analysis, students become aware of 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 the preparation of Regional Foods of the United States.

Prerequisites: None

Course Requirements: Participation in hands on activities and completion of assignments

Nutritional Management – 923

[Credit 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 choice influences, technological and scientific influences, special diets, and career exploration in this field. Attention will be given to nutrition, menu planning, industry-based food safety, and sanitation. Laboratory experiences will be utilized to develop food handling and preparation skills. Nutritional Management is geared toward students interested in careers involving dietetics, education and health and wellness related fields.

Prerequisites: Principals of Nutrition and Wellness

Course Requirements: Participation in hands on activities and completion of assignments

Nutrition Science and Diet Therapy – 924

[Credit 1.0]

Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for 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 the overall healthcare process, use methods for analyzing the nutritional health of a 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 and its role in the prevention and treatment of disease.

Prerequisites: Nutritional Management

Course Requirements: Participation in hands on activities and completion of assignments

Health Science Education Pathway Overview

Healthcare is the largest and fastest-growing industry in the United States. In the Health Science Career Cluster, you can prepare for a career that promotes health, wellness, and diagnosis, and treats injuries and diseases. Students in health science learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and twoyear 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 as Nurse Aide, Home Health Aide, Licensed Practical Nurse, Registered Nurse, Phlebotomist, Medical Tech/Assisting, Pharmacist, Physical Therapist, Dentistry, Social Work, Doctor and more.

This course pathway will provide you with the foundations of the Healthcare Industry while obtaining a variety of certifications such as Nurse Aide, Home Health Aide, CPR, Medical Assisting, and opportunity for professional license in Practical Nursing.

The 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. Leadership training is gained 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 planning to enter the Practical Nurse pathway, or continue Healthcare/Medical programs education in college will need to have strong Math, English/Writing, Science skills.

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

- <u>Introduction to Health Science (</u>10th grade)
- <u>Allied Health Science 1 (</u>11th grade) & Safety, Nutrition & Wellness (11th Grade)
- <u>Allied Health Science 2 (</u>12th grade)

Certification Opportunities for students completing this pathway:

- American Heart Association Basic Life Support for Healthcare Providers
- American Heart Association Heart Saver CPR/AED
- American Heart Association First Aid
- NYS Nurse Aide Certification
- NYS Home Health Aide Certification
- Medical Assisting Certification
- Practical Nurse pathway students will be eligible to sit for the PN-NCLEX Licensing

Health Science Career Multiple	Introduction to Health Science - CRS 755 [Credit 1.0]		
Pathway	This is the first of many courses offered to students interested in pursuing a caree		
English 9	in the healthcare field. During this first course, students are introduced to healthcare history, careers, law and ethics, cultural diversity, health care language		
US History	and math, infection control, professionalism, communication, basics of the		
Algebra 1	organization of healthcare facilities.		
Liv. Env (Lab)	Prerequisites: None		
Physical Education	Course Requirements: Students must have an 80% or higher to enroll in Allied		
(Opposite Sci. Lab)	Health I		
Foreign Language	*Students that are eligible for Practical Nurse pathway must meet eligibility criterio		
Required Art Credit	including TABE/TEAS exam, Interview, Essay, and Letter of Recommendation.		
	Allied Health Science 1 - CRS 777 [Credit 1.0		
English 10	Students will learn about infection control, "Transmission Based Precautions" and		
Global I	become more familiar with OSHA, HIPPA, and the CDC. Students will learn how to		
Geometry	take vital signs, record them and learn what the data means. This course wi		
Chemistry	provide the foundation for further advancement in Health Science.		
(or Sci. elective)	Prerequisites: 80 % or higher in CRS 775, good attendance, and teache		
Physical Education	recommendation.		
(Opposite Sci. Lab)	Course Requirements: Required to have a recent physical and immunization or		
Intro to Health Science	record for this course. During clinical rotation, students must wear Uniform.		
•••	record for this course. During clinical rotation, students must wear Uniform. *Students must have an 80% or higher to enroll in Allied Health Science 2		
Intro to Health Science			
Intro to Health Science	*Students must have an 80% or higher to enroll in Allied Health Science 2		
Intro to Health Science	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any		
Intro to Health Science Education 755	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill		
Intro to Health Science Education 755 English 11	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisited by the state as a present hours.		
Intro to Health Science Education 755 English 11 Global II	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide example.		
Intro to Health Science Education 755 English 11 Global II Algebra II	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and and score or higher.		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide examp Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777.		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab)	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for this course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway:		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for thi course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for thi course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exampered Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for thi course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification • NYS Home Health Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777 English 12 Government/ Economics	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for thi course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777 English 12	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for this course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification • NYS Home Health Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777 English 12 Government/ Economics Physical Education Medical Math 391	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for this course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification • NYS Home Health Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777 English 12 Government/ Economics Physical Education Medical Math 391 Methods in Medical Technology 507	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skills practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for this course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification • NYS Home Health Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777 English 12 Government/ Economics Physical Education Medical Math 391 Methods in Medical Technology 507 Allied Health Pathway II 776	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skill practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for this course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification • NYS Home Health Aide Certification		
Intro to Health Science Education 755 English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Human Anatomy 542 Allied Health Pathway I 777 English 12 Government/ Economics Physical Education Medical Math 391 Methods in Medical Technology 507	*Students must have an 80% or higher to enroll in Allied Health Science 2 Allied Health Science 2 - CRS 776 [Credit 2.0] Students will work to be First Aid and CPR certified before participating in any healthcare experience outside of the classroom. Instructional hours, lab skills practice hours, and clinical placement hours required by the state as a prerequisite to completion of the nurse aide training and registering for NYS Nurse Aide exam. Prerequisites: Required have an 80% score or higher, good attendance, and a teacher recommendation in course 755 &777. Course Requirements: Recent physical and immunization on record for this course. During clinical rotation, students must wear Uniform. Certification Opportunities possible for students completing this pathway: • American Heart Association Basic Life Support for Health Care Providers • NYS Nurse Aide Certification • NYS Home Health Aide Certification		
Medical Mathematics	(North Camp	ous Only) - CRS 391
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[Credit 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 local final exam must be completed.

Human Anatomy & Physiology (11, 12) - CRS 542

[Credit 1.0]

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.

Health Science Education Pathway continued ...

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. A comprehensive final exam will be administered at the completion of the course.

Methods in Medical Technology (11, 12) - CRS 507

[Credit 1.0]

North Campus - This course may be used as the 3rd unit of science to meet diploma requirements for a Regents Diploma. The course may not be used for Regents credit. This course is the study of the principles and practice of clinical laboratory medicine, including approaching the patient, professional ethics, laboratory procedures, and the ECG technique. Use of technology to develop standard curves and determine clinical parameters like glucose and/or hemoglobin is studied. Students will prepare Levi-Jennings control charts, including determination of the mean, median, mode, standard deviation, and coefficient of variation configurations. Students will learn laboratory techniques in basic hematology using simulated human specimens. Research in health care professions, interaction with guest speakers of healthcare professions and site visits to hospital departments are included. Correlated with lectures are readings and laboratory exercises to develop independent study. This is aligned with the Health Care Pathway at NFA North Campus. Students may be eligible for a certificate as a Medical Assistant.

Prerequisites: Successful completion of Regents Living Environment, Regents Chemistry, Regents Algebra I, all corresponding Regents exams, permission of the instructor.

Course Requirements: Completion of all prescribed laboratory work and rotation assignments in healthcare settings.

AIR FORCE JUNIOR RESERVE OFFICER 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

Aerospace Science, Leadership Education, and Wellness

English 10 Global I Geometry Liv. Env. Or Earth Sci. (Lab) Physical Education (Opposite Sci. Lab) **Aerospace Education 2 941 Studio Art** English 11 Global II Algebra II Physical Education (Opposite Sci. Lab) Chemistry (or Sci. elective)

Health

Aerospace Education 3 942

English 12

Aerospace Education 4	943
Physical Education	
Government/ Economics	5

Aerospace Science, Leadership Education, and Wellness Course Descriptions

AEROSPACE EDUCATION 1 (9, 10, 11, 12) - CRS 940

[Credit 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 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 military establishments or civilian institutions associated with flying are a possibility. There will be ample opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.

Prerequisites: Be at least in the 9th grade, and a legal resident of the United States.

Course Requirements: Completion of, and passing grades in, academic and leadership assignments. Wearing of the uniform once per week and participation in fitness activities, the Annual Military Ball, Commander's Call, Annual Awards Ceremony and one of three local parades.

AEROSPACE EDUCATION 2 (10, 11, 12) - CRS 941

[Credit 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 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 military establishments or civilian institutions associated with flying are a possibility. There will be many opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.

Prerequisites: Successful completion of Aerospace Science 1 and recommendation by the Aerospace Science Instructors.

Course Requirements: Same as course 940

AEROSPACE EDUCATION 3 (11, 12) - CRS 942

[Credit 1.0]

[Credit 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 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 military establishments or civilian institutions associated with flying are a possibility. There will be ample opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.

Prerequisites: Successful completion of Aerospace Science 2 and recommendation by Aerospace Science Instructors.

Course Requirements: Same as Course 940

AEROSPACE EDUCATION 4 (12) - CRS 943

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 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 military establishments or civilian institutions associated with flying are a possibility. There will be ample opportunities to participate in leadership situations. Cadets may join the competition drill team on a voluntary basis.

Prerequisites: Successful completion of Aerospace Science 3 and recommendation by Aerospace Science Instructors.

Course Requirements: Same as Course 940

Video Production Pathway	Video Production Course Descriptions	
English 9		
US History	Video Production - CRS 686 [Credit 1.0]	
Algebra 1	Both Campuses - This course explores elementary video production principles, practice,	
Liv. Env. Or Earth Sci. (Lab)	and operation. Emphasis is placed on the laboratory elements of scripting, lighting, audio,	
Physical Education	camera, switching, character generator and Chroma key. Practical experience in	
(Opposite Sci. Lab)	producing video projects will be reviewed.	
Foreign Language	Prerequisites: None	
Required Art Credit	Course Requirements: Completion of all class assignments and tests	
English 10		
Global I	Advanced Video Production - CRS 687 [Credit 1.0]	
Geometry	Both Campuses - This course continues exploring video production principles, practice	
Liv. Env. Or Earth Sci. (Lab)	and operation. Emphasis is placed on producing video projects for use on Goldback TV	
Physical Education	presentations.	
(Opposite Sci. Lab)	Prerequisites: CRS 686 - Video Production	
Health	 Course Requirements: Completion of all class assignments, projects and tests. 	
Video Production 686	Internship/Cap Stone Project CRS 763 & 764 Credit 0.5 and 1.0	
	Mentor/Mirror/ Job shadow professionals in the field.	
English 11	Make connections for YOUR SUCCESSFUL Career in your area of study.	
Global II	Prerequisites: CRS 686	
Algebra II	Course Requirements: Students will be required to prepare a project and do a	
Physical Education	presentation at the end of the course.	
(Opposite Sci. Lab)		
Chemistry		
(or Sci. elective)		
Advanced Video Production 687		
English 12		
Government/ Economics		
Physical Education		
Co-op Work Video Production		
Co-op Work Video Production		
Optional – Internship/ Cap Stone		
763 and 764		

Welding Pathway	Welding Course Descriptions
English 9	
US History	Basic Welding - CRS 729 [Credit 0.5] Main Campus - This course provides a general knowledge of basic principles and procedures
Algebra 1	used in the welding trade. The student is introduced to oxyacetylene, MIG, TIG, electric arc
Liv. Env. Or Earth Sci. (Lab)	welding and plasma cutting. This course is helpful to the student who intends to enter the
Physical Education	welding, auto mechanic, and auto body field.
(Opposite Sci. Lab)	Prerequisites: None
Foreign Language	Course Requirements: Completion of assignments. Students must provide leather work boots
Required Art Credit	
•	Welding 1 - CRS 712 [Credit 2.0]
English 10	Main Campus - This course is intended for the student who is seriously considering welding
Global I	as a career. The course will include related theory and "hands-on" skills in oxyacetylene,
Geometry	electric arc, and metal inert gas "MIG" welding. Students will be introduced to the different
Liv. Env. Or Earth Sci. (Lab)	welding positions. Welding proficiency will be gained with programmed practice skills and
Physical Education	project construction.
(Opposite Sci. Lab)	Prerequisites: CRS. 729
Health	Course Requirements: Students must provide suitable work clothes and safety-type shoes. Completion of assignments.
Basic Welding 729m	completion of assignments.
basic weiding 725m	Welding 2 - CRS 713 [Credit 2.0]
English 11	Main Campus - This course expands greatly on blueprint reading and metallurgy and its
Global II	relationship to welding. Students will gain advanced skills in oxyacetylene, electric arc "MIG"
Algebra II	and "TIG" welding. All welding positions are covered: flat, horizontal, vertical and overhead.
Physical Education	Students may be eligible to take the NYS DOT Welding test.
(Opposite Sci. Lab)	Prerequisites: CRS- 712- Welding 1
Chemistry	Course Requirements: Students must provide suitable work clothes and work shoes/boots. Completion of assignments.
(or Sci. elective)	completion of assignments.
Welding I 712m	Internship/Cap Stone Project - CRS 763 & 764 [Credit 0.5 and 1.0]
(2 Periods)	Mentor/Mirror/ Job shadow professionals in the field.
Welding I Lab	Make connections for YOUR SUCCESSFUL Career in your area of study.
	Prerequisites: CRS 729
English 12	Course Requirements: Students will be required to prepare a project and due at the end of
Government/ Economics	the course.
Physical Education	4
Welding II 713m	4
(2 Periods)	
Welding II Lab	4
Optional – Internship/ Cap Stone	4
763 and 764	
705 and 704]

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 comprised 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 course to count for their graduation requirements.

World of Technology Math - CRS 7541 [Credit 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 <u>math skills in a technology</u> 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 7542 [Credit 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 <u>science skills in a technology</u> 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.

STUDIO ART COURSES

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

Clothing and Textile/Intern Design - CRS 790 [Credit 1.0]

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 660 [Credit 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

[Credit 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 601

[Credit 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 631 [Credit 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.

EXCELSIOR ACADEMY

Excelsior Academy
English 9
US History
Algebra 1
Environmental Science
Physical Education
Health
Foreign Language
Required Art Credit
English 10
Global I
Geometry/College Math
course
Earth Sci. (Lab)
Physical Education
(Opposite Sci. Lab)
College Success and Career
Planning
English 11
Global II
College Math/Modeling in
Mathematics
Physical Education
(Opposite Sci. Lab)
Chemistry
(or Sci. elective)

English 12/Freshman English Government/ Economics Physical Education

In addition to the coursework outlined above, students will take courses at SUNY Orange in 10th, 11th, and 12th grade that are aligned to either the Networking or Cyber Security degree requirements. Excelsior Academy 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 everchanging global workforce in information technology. Students in Excelsior Academy graduate with an Associate's in Applied Science degree 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. Excelsior Academy 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 Excelsior Academy, the length of the school day and the school year is longer for enrolled students.

English Courses - CRS 080T

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

Excelsior Academy - 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 Excelsior Academy committee recommendation.

Freshman English 1 (11, 12) - CRS 081T

This course taken for 3 college credits

Excelsior Academy - 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.

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

Freshman English 2 (11, 12) - CRS 082T

This course taken for 3 college credits

Excelsior Academy - 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. **Prerequisites:** A grade of C or better in Freshman English 1

Elementary Algebra (10, 11, 12) - CRS 3202T

This course taken for 3 college credits

Excelsior Academy - Topics include operations on polynomials and rational expressions, laws of exponents, factoring, graphing of linear equations and inequalities, and systems of equations. A knowledge of operations on signed numbers and solutions to linear equations is required. Emphasis is placed on developing the skills necessary for further study of algebra. **Prerequisites:** Successful completion of Algebra 1 and appropriate score on SUNY Orange placement test.

[Credit 0.5]

[Credit 0.5]

[Credit 0.5]

[Credit 0.5]

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

This course taken for 3 college credits

Excelsior Academy - 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: A grade of C or better in Elementary Algebra

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

Excelsior Academy Continued

This course taken for 3 college credits

Excelsior Academy - 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

[Credit 0.5] This course 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.



[Credit 0.5]

[Credit 0.5]

Computer Information Technology - Networking

	a 11.	
Computer Information	Credits	
Technology Networking		
First Semester		
ENG 101 Freshman English 1	3	
MAT_College Algebra or higher	3	
CIT 103 Management	3	
InformationSystems		
CIT 107 Introduction to C++	3	
Programming		
CIT 105 Data Communic. &	3	
Networking		
CIT 100 Computer Literacy 3	3	
Second Semester		
ENG 102 Freshman English 2 3	3	
MAT_College Trigonometry or	3	
higher 3		
CIT 112 Computer Hardware and	4	
Software 4		
CIT 116 Networking 1 4	4	
PES 100 Concepts of Physical	1	
Wellness 1		
Third Semester		
Social Science Elective 3	3	
CIT 211 Systems Analysis 3	3	
CIT 225 Database Fundamentals	3	
3		
CIT 217 Unix/Linux 3	3	
CIT 203 Networking 2 4	4	
PES Physical Education 1	1	
Fourth Semester		
Social Science Elective 3	3	
CIT 212 Systems Design 3	3	
CIT 206 Network Security 3	3	
CIT 230 Internship 3	3	
Restricted Elective* 3	3	
	5	
Total Credits: 65	65	
*Restricted Electives:		
CIT 111 Internet & HTML Programming CIT		
115 Visual Basic		
Any course approved by department		
,		

Recommended Course Sequence Program Description

The Associate in Applied Science degree program in CIT–Networking prepares students for employment in a variety of entry-level careers in computer networking and information technology occupations. The theory and practical experience students gain allows them to enter jobs with highly competitive salaries.

This degree program offers the coursework that provides background information for students to take the CompTIA's A+, Security+,

Networking+, Linux+ and CISCO's CNA certification exams.

The primary focus of this degree program is networking computer systems including implementation, configuration, maintenance and administration of networking equipment, which includes creation of networking servers. The degree course work introduces students to basic computer systems and builds on theoretical and technical knowledge and skills to develop a strong understanding of networking topologies, mediums and medium access techniques in both local area and wide area networks (LANs and WANs). Classes are designed to provide students with hands-on training utilizing state-of- the-art computer facilities.

Students are also placed in a work environment in order to provide actual service to a business through the CIT–Networking internship.

Students are encouraged to discuss their future career and/or transfer goals with a CIT–Networking advisor.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

Student Learning Outcomes

Students will:

- Install and configure networking equipment.
- Implement and configure network protocols.
- Troubleshoot PC hardware problems.
- Assemble a PC.
- Identify and summarize security threats and appropriate actions to minimize those threats.
- Install, configure and manage a networking operating system.
- analyze an existing system and determine appropriate system design.
- Implementation strategies.

Cyber Security

Computer Information	Credits
Technology Networking	
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	3
and	
Introduction to Networking	3
PES 100 Concepts of Physical	1
Wellness	
Second Semester	
ENG 102 Freshman English 2	3
CIT 116 Networking 1	4
CIT 112 Computer Hardware and	4
Software	
CIT 118 Operating Systems	4
Third Semester	
CIT 203 Networking 2	4
CIT 217 Introduction to	4
Unix/Linux	
CFR 221 Computer Forensics	3
CSS 223 Information Security	3
PSY Psychology	3
PES Physical Education	1
Fourth Semester	
CFR 222 Network Forensics	3
CSS 224 Network Perimeter	3
Security	
CSS 226 Cyber Crime	3
Investigations	
CRJ 111 Criminology	3
Math or Liberal Arts Science	3
Total Credits	65

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 stateof-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. If students are considering this, they should consult with the department chair and advisors for program planning. Special planning is available for students entering the program with previous college credit or equivalent training/work experience.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission.

Hudson Valley Educational Consortium students from Sullivan County Community College or Ulster Community College who plan to register for Cybersecurity courses must apply to and be accepted in the program by the following dates: August 15 for a Fall semester; December 15 for a Spring semester.

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

Departamento de Inglés como Nuevo Idioma

(English as a New Language -ENL)

ENL- Principiante (Gr. 9-10) - CRS 278B

[Créditos 3]

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. Este curso se concentra en el inglés conversacional y en el principio de la lectura básica. 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- Principiante (Gr. 11-12) - CRS 279B

[Créditos 3]

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. Este curso se concentra en el inglés conversacional y en el principio de la lectura básica. 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- Emergente (Gr. 9-10) - CRS 284B Créditos 2

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- Emergente (G. 11-12) - CRS 285B

[Créditos 2]

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- En Transición (Gr. 9-10) - CRS 258B [Créditos 1 (ELA)]

Este curso ha sido diseñado para ayudar a los estudiantes que demuestran cierta independencia en desarrollar habilidades académicas lingüísticas necesarias para demostrar dominio del inglés en diversos contextos o entornos académicos. Es para estudiantes que están en el nivel de Transición de inglés como nuevo idioma pero que todavía necesitan mucha práctica en la lectura y la escritura en inglés. Los estudiantes del nivel en Transición participan en un curso de inglés regular con la asistencia del meastro(a) de ENL: ELA/ENL cointegrado.

Pre-Requisitos: Tener Competencia limitada en el inglés, según los resultados del NYSITELL o del 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- En Transición (Gr. 11-12) - CRS 259B [Créditos 1 (ELA)]

Este curso ha sido diseñado para ayudar a los estudiantes que demuestran cierta independencia en desarrollar habilidades académicas lingüísticas necesarias para demostrar dominio del inglés en diversos contextos o entornos académicos. Es para estudiantes que están en el nivel de Transición de inglés como nuevo idioma pero que todavía necesitan mucha práctica en la lectura y la escritura en inglés. Los estudiantes del nivel en Transición participan en un curso de inglés regular con la asistencia del meastro(a) de ENL: ELA/ENL cointegrado.

Pre-Requisitos: Tener Competencia limitada en el inglés, según los resultados del NYSITELL o del 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- En Expansión (Gr. 9-10) - CRS 263B [Créditos 1 (ELA)]

Este curso ha sido diseñado para estudiantes que están en el nivel avanzado y demuestran gran independencia en desarrollar las habilidades académicas lingüísticas y están cerca de alcanzar las exigencias lingüísticas necesarias para demostrar dominio del inglés en diversos contextos o entornos académicos. Es para estudiantes que están en el nivel de Expansión de inglés como nuevo idioma pero que todavía necesitan práctica en la lectura y la escritura en inglés. Los estudiantes del nivel en Expansión participan en un curso de inglés regular con la asistencia del meastro(a) de ENL: ELA/ENL co-integrado.

Pre-Requisitos: Tener Competencia limitada en el inglés, según los resultados del NYSITELL o del 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- En Expansión (Gr. 11-12) - CRS 264B [Créditos 1 (ELA)]

Este curso ha sido diseñado para estudiantes que están en el nivel avanzado y demuestran gran independencia en desarrollar las habilidades académicas lingüísticas y están cerca de alcanzar las exigencias lingüísticas necesarias para demostrar dominio del inglés en diversos contextos o entornos académicos. Es para estudiantes que están en el nivel de Expansión de inglés como nuevo idioma pero que todavía necesitan práctica en la lectura y la escritura en inglés. Los estudiantes del nivel en Expansión participan en un curso de inglés regular con la asistencia del meastro(a) de ENL: ELA/ENL co-integrado.

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

Español para los estudiantes de habla hispana (G) - CRS 245 [Créditos 1.0]

Este curso es diseñado para capitalizar la fluidez que el estudiante ya logrado. El énfasis es en aumentar el vocabulario y refinar el uso correcto del español. Lo importante de este curso es mejorar las habilidades de lectura y de redacción con énfasis en la gramática. 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.

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

Español para los estudiantes de habla hispana (L) - CRS 246 [Créditos 1.0]

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

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

EDUCACIÓN BILINGÜE Departamento de Estudios Sociales

Historia Global y Geografía I Regente (9) - CRSO 192B

[Créditos 1.0]

Este curso se ofrece en NFA Main - Este curso se ofrece en NFA Main: El currículo de Historia Global y Geografía se ofrece en un programa de dos anos (Grados 9 y 10) basado en los cinco estándares de aprendizaje de Estudios Sociales del Estado Nueva York. Este programa esta 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:** Ninguno

Requisitos del curso: Según el plan de estudio del curso

Estudios Globales II Regente (10) - CRS 102B [Créditos 1.0]

Este curso se ofrece 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. Los requisitos son parecidos a los del curso de honores con mayor énfasis en el uso de guias 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

Requisitos del curso: Según el plan de estudio del curso

Historia de los Estados Unidos y su Gobierno (11) - CRS 112B [Créditos 1.0]

Este curso se ofrece 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.

Requisitos del curso: Según el plan de estudio del curso

Economía (12) - CRS 138B

[Créditos 0.5]

Este curso se ofrece en NFA Main: Este 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 esos sistemas, incluyendo el consumidor, empresas, el trabajador, agricultura y el gobierno. El énfasis es en los Estados Unidos, pero se la dará énfasis a 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.

Requisitos del curso: Según el plan de estudio del curso

Participación en el Gobierno (Regentes) 12 - CRS 141B [Créditos 0.5]

Este curso se ofrece 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.

Requisitos del Curso: Según el plan de estudio del curso

Departamento de Matemáticas

Algebra 1-A - CRS 313

[Crédito 1.0]

[Crédito 1.0]

[Crédito 1.0]

Este curso se ofrece 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 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.

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

Algebra 1-B - CRS 316

Este curso se ofrece en 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 tendrá el examen álgebra 1 común central en junio. Este segundo año abarca habilidades fundamentales enraizadas en el currículo común álgebra 1 al completar los requisitos curriculares para tomar el examen de los regentes en junio.

Pre-Requisitos: Realización de álgebra 1-A

Requisitos del curso: Se deben completar todas las pruebas, cuestionarios, tareas y examen de Regents

Geometría – NR - CRS 333

Este curso se ofrece en 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 analíticas, formales. El curso analiza la teoría de conjuntos y normas con las aplicaciones del segmento y ángulo de congruencia. Incluirá una breve exposición a 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: Realización de NYS Algebra I Curso de núcleo común y examen de los regentes.

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



Modelos en Matematicas - CRS 3602B

[Crédito: 1.0]

Este curso se ofrece en NFA Main: - Este curso esta diseñado para aquellos estudiantes que necesitan un tercer curso de matemáticas para cumplir con los requisitos del estado de Nueva York para graduación. Los temas incluyen aplicaciones en la vida real de funciones lineales, variación, sistemas de ecuaciones, matrices, y cuadráticas, funciones exponenciales y sinusoidales. También se explorarán las estadísticas y predicciones.

Pre-Requisitos: Haber aprobado Algebra y el examen de Regentes de Algebra Integrada y un curso adicional de matemáticas.

Requisitos del curso: Tomar todas las pruebas, completar todas las tareas y asignaciones.

Departamento de Ciencia

Biología (10, 11, 12) - CRS 502B

[Créditos 1.0]

Este curso se ofrece en NFA Main - Los estudiantes comprenderán y aplicaran 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 como 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.

Tópicos: 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, un día sí, otro no

Pre-requisitos: Estudiantes han de haber tomado Álgebra integrada o estar tomando ese curso a la misma vez.

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

Ciencias de la Tierra (10, 11, 12) - CRS 532B [Créditos 1.0]

Este curso se ofrece 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 Tierraporque y como 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, un día sí, otro no

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.

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,

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

- 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)

health, and nutrition. The objective is to motivate cadets to lead healthy, active lifestyles.

- 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

years:

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