



North Rose-Wolcott High School

**Curriculum Guide Master
2021-2022**

Introduction

The time has arrived when you are asked to make course selections for next year and to think about the over-all school curriculum you wish to follow. This is a most important decision for you to make. Together with the help of your parents and the information the Counseling Department can provide, your academic decisions should prove to be appropriate.

This guide is intended to acquaint you with our philosophy, regulations concerning qualifications for some courses and the various courses of study available in our high school.

Please take the time to read each selection carefully so that you will be familiar with the graduation requirements and happy with the elective courses you choose.

*NORTH ROSE - WOLCOTT HIGH SCHOOL
COUNSELING DEPARTMENT*

VOPRO – Sponsored by The Board of Cooperative Educational Services at Williamson

North Rose-Wolcott Central School has joined with other schools in providing a vocational program designed to prepare young people for immediate entry into a job after graduation. A student in his/ her junior year may participate in the program and secure a major sequence for graduation if he/she satisfactorily completes this course of study.

It is important to understand that completion of high school graduation requirements through any of these vocational programs may not offer, in some cases, proper preparation for college entrance and in other cases the vocational program plus certain high school subjects will prepare a student for college. The VOPRO program may often provide a college bound student advantages over other college bound students. College bound students attending VOPRO should plan their course of study carefully with their counselor.

*Student eligibility for BOCES programs follows our Board of Education policy.

The following vocational courses are offered,
with 4 credits per year
given for satisfactory completion:

Animal Science
Auto Body Repair
Auto Technology
Carpentry
Computer Programming/Video Gaming Design
Conservation
Cosmetology
Criminal Justice
Culinary Arts
Education Professions
Electrical Trades/Renewable Energy
Health Dimensions
Advanced Manufacturing & Engineering Academy
Network Technician
Power Mechanics
*New Visions Medical Careers
*New Visions Nursing
*New Visions Vet Science

*senior year only

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Graduation REQUIREMENTS

<i>UNITS OF CREDIT:</i>	Regents Diploma	Advanced Designation Regents
English Language Arts	4	4
Social Studies	4	4
Mathematics	3	3
Science	3	3
Health	.5	.5
The Arts	1	1
Languages Other Than English	1	*3
Physical Education	2	2
Sequence Courses, Electives	3.5	3.5
TOTAL REQUIRED	22	22
<i>EXAMINATIONS:</i>	Regents Diploma	Advanced Designation Regents
<u>REGENTS DIPLOMA</u>		
Comprehensive English	1	1
Social Studies	1	1
Mathematics	1	3
Science	1	2
Other	1	1
Languages Other Than English		1
TOTAL REQUIRED	5	8 or 9

*students may substitute 5 units CTE, art or music.

ART

Studio Art

Studio Art is the foundation course designed to give all students the basis for taking any other art classes. Activities center around the use of art material such as pencil, paint, pastels, markers and colored pencils. Students are also instructed on art history and art vocabulary. **Studio Art is a required prerequisites for all other art classes.** *Grades 9-12. (1 credit)*

Ceramics

Ceramics 1 and 2 are foundation classes for students exploring the three-dimensional media of clay. The course structure is 20 weeks of working off the wheel, including pinch, coil, and slab construction (1) and 20 weeks of working on the potter's wheel (2). Students in Ceramics 2 will be expected to experiment with glaze application as well as the development of a strong, personal style. **Prerequisite: Studio Art.** *Ninth Graders who have had advanced Art in Grade 8 may also take this course. Grades 10-12 (½ or 1 credit)*

Drawing and Painting

This course is designed as the follow up course from Studio Art 2 for interested young artists. The students will continue learning about a variety of media including pen, charcoal, conte crayon, oil pastel, acrylic paint, watercolor and linoleum block printing. They will also continue their study of art history and vocabulary. **Prerequisite: Studio Art.**

Full year required for all drawing majors. Eighth graders may use Advanced Art in lieu of Studio Art. Grades 10-12 (½ or 1 credit)

Intermediate Drawing and Painting

Intermediate Drawing and Painting is designed for the art major. First semester, students will be asked to develop landscape work first term, still life work second term and figurative work third term. We will be working in a wide variety of medium. Second semester will address specific media and students will get to choose the subject matter. This is a very rigorous course. Students will be expected to explore artists and write critiques along with their artwork. All work will be created with the development of a personal portfolio the ultimate goal. **Prerequisites: Studio Art, Drawing & Painting.** *Grades 10-12 (½ or 1 credit)*

Intermediate Ceramics

Intermediate Ceramics is designed for the continuing ceramic student. All students will be working on projects designed by the instructor to encourage personal exploration in both wheel and hand built projects. Students will get to try a variety of different glazing and firing methods including ash can firing and raku. Emphasis will be on developing a wide range of work in a vast array of sizes. Production work (as in doing sets of mugs) will be done also. **Prerequisites: Studio Art, Ceramics 1 & 2,** *Grades 10-12 (½ or 1 credit)*

Advanced Drawing & Painting or Ceramics

This course is designed for the junior and senior art students who have taken Intermediate Drawing and Painting or Intermediate Ceramics and want to continue their explorations in a specific field. It is geared toward developing individual talents at critical levels of artistic production as well as critical thinking levels. All students will be assigned projects to help them further advance their portfolio pieces. Students will be meeting during regularly scheduled times for Advanced Drawing and Painting or Advanced Ceramics. **Prerequisites: Intermediate Drawing and Painting or Intermediate Ceramics.** *Grades 11,12 (½ or 1 credit)*

CAP Digital Photography

CAP Digital Photography is a 20 week course designed to introduce students to the basics of camera handling and darkroom techniques. Students will learn to shoot with both a manual 35 mm camera and a digital camera. Black and white film processing and the printing of black and white images will be done in the communal darkroom. Using Adobe Photoshop on the computer, students will produce digital imagery. **This is an extremely technical course and students will be tested weekly on vocabulary and darkroom processes.** Enrollment will be limited due to access to enlargers and cameras. It is not necessary for students to own a 35 mm camera. **Students will have to purchase their own film and ink jet paper. Each student should be prepared to spend at least \$16.00 during the 20 weeks on film.** **Prerequisite: Studio Art.** *Grades 11& 12 (½ credit)*

CAP Intro to Photo & Dark Room Techniques

In CAP Intro to Photo & Dark Room Techniques, students will continue on with exploration of photography as an artistic medium. Students will develop a photography portfolio. Each student will do a research project on an established photographer. We will continue working with both digital and analog photography. **Students must be prepared to purchase their own film and ink jet paper. Individuals should plan on having at least \$20.00 for film for this class.** **Prerequisite: Performing well in CAP Digital Photography. Grades 11 & 12 (½ credit)**

Computer Art

Students will be introduced to basic computer applications for producing creative artistic projects. The course is geared toward more graphically oriented projects such as posters, advertisements, logos for products etc. Students will be instructed in basic use of Adobe Photoshop. **Prerequisite: Studio Art. Grades 10-12 (½ credit)**

Advanced Computer Art

Students will apply the skills learned in computer Art to produce more sophisticated projects using Dream Weaver, Adobe Photoshop, and Corel Draw 7.

Students will also learn to create personal and commercial web site designs. **Prerequisite: Studio Art and Computer Art. Grades 10-12 (½ credit)**

Fusing and Slumping Warm Glass

Warm Glass or Fused Glass is a basic glass forming class using fusing glass or recycled window glass as a material for the projects. Colors will be added by mason stains, colored glass stringers, colored chips, and colored powders. The projects will range from glass pendants, coasters, small to large bowls, and drop through vases. The glass will be kiln fused, and slumped into ceramic molds. Students will also study glass history and technical glass vocabulary. Grade 12 only.

Prerequisite: Studio Art. (½ credit)

Advanced Placement 2-dimensional Design

The AP Art Course is for seniors only. Students will develop a portfolio of a minimum of 24 pieces of artwork to be submitted to a national site for grading to earn college credit. Each student must complete a concentration, 12 pieces based on a personally developed theme. Twelve other pieces of art are submitted to show that the student is fluent in a variety of media. All of the above are submitted digitally. Five pieces of original art work are additionally sent in for evaluation. The work in this portfolio should be rooted in the elements of design. The portfolio may include drawing, painting, photography, and computer art. Students must be prepared to pay a fee, currently \$87.00, in order to get their portfolio reviewed to potentially receive college credit. Most colleges will accept the credit if the student receives a grade of 3.0 or better. **Prerequisite: Studio Art plus 2 additional high school credits of 2-dimensional art. Grade 12 only. (1 credit)**

Advanced Placement 3-dimensional Design

The AP art courses are for seniors only. Each student must complete a concentration, 12 images of their 3-dimensional work which are based on a personally developed theme. Eight other pieces of art are submitted to show that the student is fluent in a variety of media. All of the above are submitted digitally. Five of the best pieces of work are sent in digitally for evaluation of overall quality. Students must be prepared to pay a fee, currently \$87.00, in order to get their portfolio reviewed to potentially receive college credit. Most colleges will accept the credit if the student receives a grade of 3.0 or better. **Prerequisite: Studio Art plus 2 additional high school credits of 3-dimensional art. Grade 12 only. (1 credit)**

Advanced Placement Drawing

The AP art courses are for seniors only. Students will develop a portfolio of 24 pieces of artwork to be submitted to a national site for grading to earn college credit. Each student must complete a concentration, 12 pieces based on a personally developed theme. Twelve other pieces of art are submitted to show that the student is fluent in a variety of media. All of the above are submitted digitally. Five pieces of original art work are additionally sent in for evaluation. The work in this portfolio should be a show of the mastery of drawing through drawings, paintings, and prints. Students must be prepared to pay a fee, currently \$87.00, in order to get their portfolio reviewed to potentially receive college credit. Most colleges will accept the credit if the student receives a grade of 3.0 or better. **Prerequisite: Studio art, Drawing and Painting, Advanced Art. Grade 12 only. (1 credit)**

ENGLISH

English 9

The New York State grade 9 curriculum modules offer a wide range of quality texts that span the canonical to the contemporary. The grade 9 curriculum balances classic works by William Shakespeare, Sophocles, and Emily Dickinson with contemporary writing by authors such as Temple Grandin, Karen Russell, and Marc Aronson. Through the study of a variety of text types and media, students build knowledge, analyze ideas, delineate arguments, and develop writing, collaboration, and communication skills. The lessons within each of the modules are linked explicitly to the Common Core Learning Standards, and provide a rigorous and pedagogically-sound approach for how the standards can come alive with thoughtful planning, adaption, and instruction. (1 credit)

English 9H

The English enrichment classes cover all that the English 9 classes cover but in greater depth. The emphasis in these classes is on critical thinking, literary analysis, writing and research. Students taking these classes should possess enthusiasm, maturity and above average ability in English. There is required summer work prior to taking the course. (1 credit)

English 10

The New York State grade 10 curriculum modules offer a variety of rich texts that engage students in analysis of literary and journalistic nonfiction as well as poetry, drama, and fiction. Classic and contemporary authors represented in the grade 10 modules include Christopher Marlowe, Amy Tan, Martin Luther King, Jr., Alice Walker, Malala Yousafzai, E.B. White, William Shakespeare, and Niccolò Machiavelli. Working with these texts, students build knowledge, analyze ideas, delineate arguments and develop writing, collaboration, and communication skills. The lessons within the modules are linked explicitly to the Common Core Learning Standards, and provide a rigorous and pedagogically-sound approach for how the standards can come alive with thoughtful planning, adaption, and instruction. (1 credit)

English 10H

The emphases in this class are preparing the students to: think critically, analyze challenging literature, write a variety of literary analysis papers, and strengthen close reading skills. Pre-AP level literature will be included to better enable students to prepare for participation in the AP Literature class in 11th grade. Students taking this class should be enthusiastic about reading, writing, and learning challenging material. This course has REQUIRED summer work prior to taking the course. (Prerequisite: successful completion of 9H English or 9 CC teacher recommendation for students successfully completing 9 who wish to challenge themselves.) (1 credit)

English 11

The New York State grade 11 curriculum modules continue to develop students' skills in analyzing complex literary and informational texts as students delve deeply into works by acclaimed authors and historical figures, including classics from William Shakespeare, Virginia Woolf, and Kate Chopin; seminal pieces from W.E.B. Du Bois, Booker T. Washington, and Elie Wiesel; and contemporary literature from Tim O'Brien and Louise Erdrich. Through the study of a variety of text types and media, students build knowledge, analyze ideas, delineate arguments, and develop writing, collaboration, and communication skills. The lessons within the modules are linked explicitly to the Common Core Learning Standards, and provide a rigorous and pedagogically-sound approach for how the standards can come alive with thoughtful planning, adaption, and instruction. (1 credit)

AP English Literature and Composition

The AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Writing is an integral part of this course and the AP Lit. exam. Writing assignments focus on the critical analysis of literature. This course culminates in a national AP English Lit exam in early May which may, if the student earns a high enough score, result in college credit. This course has REQUIRED summer work prior to taking the course. (Prerequisite: successful completion of Pre AP English Literature and Composition. Other students who wish to take the class will be considered on a case-by-case basis.) (1 credit)

English 12

The New York State Grade 12 curriculum modules offer a wide range of quality texts that engage students in analysis of autobiographical nonfiction, speeches, poetry, drama, and fiction. The grade 12 modules comprise classic and contemporary voices including Malcolm X with Alex Haley, Leslie Marmon Silko, Henry David Thoreau, Benazir Bhutto, Jared Diamond, William Shakespeare, Tennessee Williams, Jhumpa Lahiri, and Nikolai Gogol. Through the study of a variety of text types and media, students build knowledge, analyze ideas, delineate arguments, and develop writing, collaboration, and communication skills. The lessons within each of the modules are linked explicitly to the Common Core Learning Standards and provide a rigorous and pedagogically-sound approach for how to bring the standards to life through thoughtful planning, adaptation, and instruction. In Module 12.1, students engage with autobiographical nonfiction to explore the craft of personal narrative before beginning work on their own personal narrative essays in response to a prompt from the Common Application. In Module 12.2, students read both literary and nonfiction texts to analyze how authors use rhetoric and structure in texts dealing with concepts of government and power. In Module 12.3, students engage in an inquiry-based iterative process for research. Building on work with evidence-based analysis in Modules 12.1 and 12.2, students explore topics that may elicit multiple positions and perspectives, gathering and analyzing sources to establish a position of their own and crafting an argument-based research paper. In Module 12.4, the last module of high school, students work with literary texts, including drama, poetry, short fiction, and novel, to explore how authors treat similar central ideas and themes via character development and interaction. (1 credit)

Gemini English 101 (Freshman English)

Students will develop critical thinking skills and will apply them to the writing of college-level essays. Students will also learn research techniques and will learn to incorporate documented research into a paper. Grade 12 (½ credit)
prerequisite for FLCC Credit 80% average in English 11 or AP Literature.

Gemini English 103 (Advanced Composition)

Continuing the educational goals of English 101 (critical thinking and confident writing), this course helps students to develop reader response and critical analysis papers related to several genres of literature. Grade 12 (½ credit)
Prerequisite: same as above. Must earn at least a C- in Eng 101

Young Adult Literature

Are you “turned off” to reading? How about reading some literature that was written specifically for your age group? Read about characters who face the same challenges that you do, who have similar stresses in their lives, and who make choices and have to live with the consequences of those choices. In addition to reading several novels, you will write and/or create projects in response to your reading.
Grades 9-12 (1/2 credit).

FOREIGN LANGUAGE

The major goals of the Foreign Language Department are to enable students to converse in the language they study and to gain some knowledge of the people who speak the language and the way they live.

Spanish 1R

Students will learn to read, write listen and speak using basic vocabulary and present tense verbs. Reading will be short passages. Writing will include short compositions. Any student wishing to advance to level II Spanish must complete this class. Assessments are project, participation and testing based. (1 credit)

Spanish 2R

Students will attain a higher level of communication that will include more abstract sentence syntax. The past tense verbs will be emphasized. Vocabulary development will be emphasized. Reading will include short stories. Students will write short compositions of 50 – 75 words. Classroom activities will include: music, games, role plays, oral drill, total physical response storytelling and traditional language skill instruction. (1 credit)

Spanish 3R

Students will continue language activities from levels I and II curriculums. The future, conditional, present perfect and subjunctive tenses will be taught. Students will write compositions of 125 words. Focus will include test taking strategies as preparation for the Monroe 1 BOCES final exam as mandated by New York State. Students are expected to communicate in Spanish in the classroom. (1 credit)

Gemini Spanish 4

SPN 201 is offered as 3 college credits. Curriculum follows the FLCC syllabus and students who opt to receive the college credit will register with FLCC in February 2014 at the high school. Units of study include the following chapters, and the grammar associated with each unit from the text:

1. Vacation and travel
2. Hobbies and pass times
3. Holidays and celebrations

Prerequisites: completion of high school Spanish 3 and minimum GPA of 80%. (1 credit)

Gemini Spanish 5

SPN 202 is offered as 3 college credits. Curriculum follows the FLCC syllabus and EXPLORACIONES textbook. Emphasis is on reading, writing, speaking and listening. Students who opt to receive the college credit will register with FLCC in February 2014 at the high school. Units of study include the following chapters, and the grammar associated with each unit from the text:

1. Chores and travel
2. Fashion and art
3. Environment and geography

Prerequisites: completion of high school Spanish 4 and minimum GPA of 80%. (1 credit)

HEALTH

The long-range goal of the health education program at North Rose-Wolcott High School is to develop in our students the personal and social skills they will need to make health-promoting decisions. Ultimately, teaching them how to maintain a positive health status and leading productive lives. The curriculum follows the New York State Learning standards and the Scope and Sequence for health education in New York State and is delivered through skill building strategies that promote lifelong wellness for all students. Health classes are designed to engage students in a number of activities that will promote skill communication, planning and goal setting, self and relationship management, stress management and advocacy. Topics that will be discussed include substance use and abuse, nutrition and physical activity, mental health, lifestyle diseases, human sexuality, healthy relationships and HIV/AIDS education. **Grades 10,11,12. GRADUATION REQUIREMENT.** (½ credit)

“Take care of your Health. It's your most valuable asset.”

PHYSICAL EDUCATION

The physical education program is based on a selective elective method. This allows the students the opportunity to take part in many different activities. Some of these activities include, but are not limited to, the following: golf, tennis, badminton, racquetball, cross country skiing, self defense, kayaking, weight training, volleyball, softball, archery, project adventure, soccer, football, etc. Within all of these units, the students will be taught important lifelong skills. Some of these skills include problem solving, teamwork, leadership, communication, and others.

Students are required to earn two credit hours of physical education to graduate from high school. Each year that a student successfully completes a physical education class, he/she receives a ½ credit toward his/her requirement. Certain activities are required for the students to graduate. Students must take a swimming class every year. CPR/AED training is also a requirement for the students to graduate. The students must take and pass CPR/AED once during their time while in the high school. They do not have to pass the American Red Cross tests and become certified, but they do have to pass the teacher's individual physical test during that unit. (½ credit)

MATH

Algebra

The focal point of this course is the Common Core Algebra content strand. Algebra provides a tool and ways of thinking that are necessary for solving problems in a wide variety of disciplines, such as science, business, social sciences, fine arts, and technology. This course will assist students in developing skills and processes to be applied using a variety of modeling techniques to successfully solve problems in a variety of settings. **It is the basis for all the higher level math courses a student will encounter at the high school level.** The Common Core Regents exam will be administered at the end of this course. (1 credit)

Applied Geometry

Applied Geometry is designed to teach the concepts of geometry with fewer difficult proofs. Properties of circles, triangles, and polygons will be taught. Congruent and similar triangles will be explored as well as some coordinate geometry. The material will allow the student to move into the Regents level Geometry course or the Intermediate Algebra & Geometry non-regents course. (1 credit)

Geometry CC

Geometry CC is the second course in mathematics for high school students. There is no other school mathematics course that offers students the opportunity to act as mathematicians. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. This course is meant to employ an integrated approach to the study of geometric relationships. Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relations and properties of geometric figures. The Geometry Regents will be administered at the end of this course. (1 credit)

Gemini Business Math

FLCC Business Math is intended to fulfill the mathematics requirement for students whose degree program requires math credit, but not a specific course such as College Algebra, Pre-calculus or Statistics. The central concept of the course is the time-value of money, and emphasis is placed on calculations and critical reasoning for problems where this is a major issue, such as simple and compound interest and annuities. A student must meet any one of these pre-requisites to be enrolled in the course:

Statistics

An elective math course for one credit. A first course in statistics designed to introduce descriptive statistics with one and two variables, and probability and to assimilate those concepts into probability distributions. Topics include sampling, central tendency, variability, graphing, linear correlation, and regression, dependent and independent probability, discrete and continuous probability distributions. **Prerequisite: Must have completed Algebra and either regents or non-regents geometry.** (1 credit)

Algebra 2

Algebra 2 is the capstone course of the three units of credit required for a Regents diploma. This course is a continuation and extension of Integrated Algebra and Geometry. While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. For example, technology can provide to many students the means to address a problem situation to which they might not otherwise have access. Within this course, the number system will be extended to include imaginary and complex numbers. The families of functions to be studied will include polynomials, absolute value, radical, trigonometric, exponential, and logarithmic functions. Problem situation involving direct and indirect variation will be solved. Problems resulting in systems of equations will be solved graphically and algebraically. Algebraic techniques will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms, /data analysis will be extended to include measure of dispersion and the analysis of regression that model functions studied throughout this course. Associated correlation coefficients will be determined, using technology tools and interpreted as a measure of strength of the relationship. Arithmetic and geometric sequences will be expressed in multiple forms, and arithmetic and geometric series will be evaluated. Binomial experiments will provide a basis for the study of probability theory and the normal probability distribution will be analyzed and used an approximation of these binomial experiments. Right triangle trigonometry will be expanded to include the investigation of circular functions. Problem situations

requiring the use of trigonometric equations and identities will also be investigated. Students will sit for a NYS Regents Examination at the end of this course. (1 credit)

Gemini Computer Science

This 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. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems, to large, complex problems. prerequisite of 80 average in Algebra or passing both Algebra and Algebra 2. (1 Credit)

Gemini Intro to Calculus

A continuation of the concept of functions learned in Algebra 2/Trigonometry expanding to exponential, logarithmic, polynomial, and rational functions. In addition, topics for consideration include transformations, composition, inverse functions and trigonometric functions. This course provides in-depth study of a variety of functions, solving equations and applications of functions. Moreover the course provides a bridge to the beginning groundwork of Calculus with the study of rates of change, extrema and concavity. Graphing calculator required. **Pre-requisite: successful completion of Integrated Algebra, Geometry, and Algebra 2/Trig. Students should have an Algebra 2 class average of 80%.**
Note: Students may choose to take this course for FLCC college credit and MUST take this course if they plan to earn college credit for FLCC Calculus the following year. (1 credit)

Calculus

A first course in Calculus focusing on the mathematics of changing rates. The derivative of polynomial and transcendental functions is investigated from a numerical, graphical, and algebraic approach. Applications for the use of derivatives are also explored. Introduction to the definite integral and the Fundamental Theorem of Calculus is included in this course. Graphing calculator required. **Students should have a Pre Calc course average of 80%.**
(1 credit)

MUSIC

Band

This full-year course provides students with a group activity where they learn how to work cooperatively and derive genuine aesthetic growth. Rehearsals are directed not only toward the technical advancement of students in the materials used, but also in the development of concepts relating to musical content, structure and style. Music reading, interpretation and sight-reading are continually stressed through the use of a wide variety of works. Individual and class instruction and smaller ensembles place emphasis upon technical progress as well as solo/ensemble playing through the use of repertoire other than that of the concert band.

Instruments offered are the typical concert band instruments of woodwinds, brasses and percussion. Unfortunately, due to the instrumentation, and the lack of available music, we are not accepting *electric* guitar as a normal band instrument.

The Instrumental program consists of sectional rehearsals, individual and class lessons of one period, per week on a rotational schedule, small ensemble playing and full ensemble (band) rehearsals. It may also include marching band (Parades) and opportunities for student conducting. There are also opportunities for participation in All-County, All-State, and NYSSMA Solo/Ensemble competitions and festivals, as well as competitions and festivals within and outside the state. Other experiences may include participation in a stage band, pep band, musical pit band, flute choir or brass and/or woodwind band, All are dependent upon student interest, availability of rehearsal time and the instructor's schedule. (1 credit) ***Note: If you would like to be in band and your instrument is percussion, you must audition due to the limited number of instruments available. This audition must take place at the middle school or in the high school with the high school band director at a scheduled time prior to scheduling. Please contact the Middle School Band Director or the High School Band Director for more information.***

The audition will determine if you are in Symphonic Band or Percussion Ensemble.

Girls' Choir

Girls Ensemble is a non-audition group open to any student. Students interested may indicate this on their course offering selection sheet. The class consists of musical rehearsals for concerts in December, March, and June. A rotating lesson schedule is also part of this course. Students are required to come to group voice lessons where non-chorus songs are learned and practiced. Proper breathing, vocal techniques, musicianship, and sight-reading are discussed in lessons and class. Group and solo opportunities are also available. NYSSMA Solo Festival, NYSSMA Ensemble Festival, All County, Area-All State, Conference All State, and a voice recital are some of the optional performances that are offered upon enrollment in Girls Ensemble. Students are welcome to join both choruses. Prerequisites: None (1 credit).

Choir

Mixed Chorus is a non-audition group open to any student. Students interested may indicate this on their course offering selection sheet. The class consists of musical rehearsals for concerts in December, March, and June. A rotating lesson schedule is also part of this course. Students are required to come to group voice lessons where non-chorus songs are learned and practiced. Proper breathing, vocal techniques, musicianship, and sight-reading are discussed in lessons and class. Group and solo opportunities are also available. NYSSMA Solo Festival, NYSSMA Ensemble Festival, All County, Area-All State, Conference All State, and voice recitals are some of the extra performances that are offered upon enrollment in Mixed Chorus. Students are welcome to join both choruses. Prerequisites: None (1 credit)

Lessons

Lessons enable students to improve musically in a more personal and individual way. Students are expected to attend scheduled lessons unless there is a direct conflict with the class scheduled opposite the lesson. Lessons missed will be made up at another time. Band and choir lessons are part of the overall grade for the class and are accredited accordingly. Lessons are required for band, choir, girls' choir and applied music.

Applied Music

This full-year course is a combination of both Instrumental Music (BAND) and Vocal Music (CHOIR). Students who take this course will be involved in both instrumental lessons and voice classes; they will also participate in BAND and CHOIR rehearsals on an alternating basis. Course requirements are a combination of those for both BAND and CHOIR. ***Prerequisites: No prior vocal experience required. Prior instrumental experience and/or discretion of High School Band Director.*** (1 credit)

Jazz Ensemble

There is a need in our district for students to be able to experience different genres of instrumental music. Jazz allows students to stray from the normal classical music setting and allows them to use their own creativity. It also allows students to be more comfortable to voice their own opinion through improvisation. Jazz has always had an inner communication system: its own language. This unique language gives student's confidence throughout life.

The course also includes, scheduled high school music concerts and performing in two or three community events.

Prerequisite: Students must be currently enrolled in symphonic band to be able to participate in Jazz Ensemble.

They must also audition for placement in the Jazz Ensemble with the current ensemble director prior to the start of the course. Audition will include the knowledge and understanding of scales (7 out of 12) and a short prepared piece of literature (solo or ensemble part). (½ credit each sem.)

Music History/Theory

This one-year course will help students further develop an awareness, a sensitivity and an appreciation of music. Material covered will familiarize students with literature which represents milestones of music history ranging from primitive times to the present day.

The instructional program consists of three main activities: 1) listening to live and/or recorded performances, 2) studying and/or researching musical information, and 3) score reading. Through these activities students will learn to discriminate and identify a broad historical core of specific works from various periods of music including Ancient, Middle Ages, Renaissance, Baroque, Classical, Romantic and the 20th century. Students will make analyses of the respective styles, musical concepts and the manners in which they might or have reflected and influenced social, economic, historical, philosophical and political conditions and artistic trends of their times.

(1 credit)

BUSINESS EDUCATION

COURSE	COURSE CODE #	LENGTH	CREDIT
Accounting	0524	40 weeks	1
Advanced Accounting	0525	40 weeks	1
Business Law	0528	20 weeks	½
Gemini Personal Money Management	0516	20 weeks	½
Business Ownership & Marketing	0531	40 weeks	1
Career & Financial Management	0500	20 weeks	½
Computer Applications (Gemini CSC105)	0514	20 weeks	½
Travel and Hospitality	0629	20 weeks	½
Mobile Apps	0696	20 weeks	½
Yearbook	0071	40 weeks	1
Future Business Leaders (FBLA)	club	40 weeks	–

The Business Education Department is organized to serve three vital roles:

- (1) To provide an opportunity for all students to achieve the learning standards in Career Development and Occupational Studies;*
- (2) To provide relevant and up-to-date learning experiences that will help all students to become well-informed citizens and consumers;*
- (3) To provide a foundation for success in college and career*

Intro to Accounting

A full year course designed to provide students with the basic knowledge of the accounting cycle. Emphasis is placed on service and merchandising businesses set up as sole proprietorships and corporate settings. Recommended for students who are exploring a career in business. All students, regardless of career choice, can benefit from accounting instruction for their own personal financial affairs.

Grades: 10-12 (1 credit) Counts as a math credit

Advanced Accounting

Students will further develop the accounting principles learned in the first year of Accounting. Topics covered will include computerized accounting, depreciation, and corporate accounting. Students will develop a solid foundation for employment in the accounting field or a business management career.

Prerequisite: Accounting (1 credit)

Travel and Hospitality

Does it sound like fun to work at a resort, on a cruise ship or travel for a career? Do you like to organize events? This course will study the business of tourism, travel, lodging/hotel/resort, food & beverage service, restaurant operations, and explore their related careers. Students will explore careers available in the various segments of the hospitality industry. Come learn to plan, organize, and explore!

Grades: 9-12 (½ credit)

Yearbook

Students will use the Balfour Studio software to create the NRW yearbook, *Forum*. Students will learn how to layout the yearbook, design individual pages, sell ads, gather information, write articles, take photographs, sell yearbooks, and design the yearbook's cover. This course will allow you to use your creative, technical, photographic, writing, and business skills to produce an exciting yearbook and learn about the publishing world.

Business Law

This exciting course is filled with practical experience for daily life. It will provide students with a comprehensive understanding of business and personal law. Emphasis will be placed on the importance of contract law, employment laws, consumer laws, product safety, purchasing/leasing a vehicle regulations, and the importance of having a will. Additional topics will include criminal law and property law. Legal knowledge is applied in a fun and meaningful way through the course.

Grades: 9-12 (½ credit)

Business Ownership & Marketing

Have you ever wanted to own your own business? Business Ownership and Marketing will give you the skills to do just that. You will learn marketing and advertising techniques while gaining real-world experience as you participate in all aspects of running our very own school store, Paw-Some Snacks. The concepts of this course reinforce the importance of teamwork in accomplishing a goal. Concepts covered will include promotion, pricing, product management, selling, and distribution.

Grades: 10-12 (1 credit)

Gemini Computer Applications (CSC105 Core Word/Excel/PowerPoint)

This course provides in-depth hands-on understanding of the Microsoft Office applications: Word, Excel, PowerPoint, and Publisher. Students will complete projects and multimedia presentations which can be transferred to other curriculum areas. Learn how to customize and integrate the applications for professional-looking publications

Grades: 10-12 (½ credit)

Gemini Business Organization & Leadership (Bus 120 Business Organization)

This course focuses on the skills necessary for personal and professional growth of students in today's world regardless of career choice. Specific skill modules include: time management, problem solving, teamwork, decision-making, communication, business organizational structures, government regulations and business ethics. You will create a successful business plan as a culminating project.

Grades: 11-12 (1/2 credit)

Gemini Career & Financial Management (BUS131 Personal Money Management)

Everyone needs good occupational and financial skills! This course introduces students to the business world and sets a solid foundation for life after high school. Units of study include: career exploration, keeping a job, banking, budgeting, credit, investing, and taxes. The knowledge learned is practiced and reinforced throughout the course and transferable to other courses and life. (This course is required for all 5-unit majors).

Grades: 11-12 (½ credit)

TECHNOLOGY EDUCATION

All students majoring in Technology Education must complete the following five units of credit:

1. Career and Financial Management (½ credit)
2. Production Systems or Communication Systems (1/2 credit)
3. Any other combination of courses in technology for four credits. Except Wood Tech courses.

DDP I and DDP II can be used to fulfill the Art/Music requirement.

Wood Technology

This course will teach you how to work with many of today's wood working tools and machines. Instruction will include the safe operation of the machines and portable power tools. The following machines will taught/demonstrated: surface planer, band saw, table saw, router, jointer, shaper, radial arm saw, drill press, miter saw, scroll saw, etc. Students will learn how to use the machines in order to construct useful projects out of rough cut lumber. Instruction will be given on wood products/materials, the safe use of various power tools and machines (including the woodworking lathe & CNC router). Students will spend their time on more difficult or larger pieces, which they will design and construct *Not part of Technology Sequence. Prerequisite: none.*
(1 credit)

Advanced Wood Technology

This course provides an opportunity to develop advanced skills in furniture and cabinet making. This course will allow the student to construct a large piece of furniture or a more technical smaller piece while learning many of the advanced woodworking techniques. . *Elective credit only. Not part of Technology Sequence. Prerequisite: Wood Tech (1 credit)*

Electricity/Electronics

Students will construct electronic projects and use lab activities to explore various electrical concepts and to learn the components (resistors, capacitors, transformers, bridge rectifiers, diodes, LED's, etc. Units covered will include: safety, different types of circuits and how the electricity flows thru them, electrical components, circuits, printed circuit boards, soldering, motors, generators, basic house wiring, digital electronics, and integrated circuits.

Students will make their own circuit boards (layout & etch), solder the components into place and construct a working project.

Prerequisite: None – although, the student should have good math skills

Grades 9-12 (1/2 credit)

Computer Aided Design (CAD)

The first course in CAD will introduce students to the basic elements and processes of technical drawing that are common to many industries, trades and occupations using sketching techniques and the computer.

Technical Drawing or drafting is a means of communication. Next to reading, speaking and writing, drawing is the most important means of communicating. Drafting and the communication of ideas through the use of lines and symbols are a fundamental skill required in the field of technology. Almost all objects – machines, houses, electronic appliances and vehicles – created through technology were designed and constructed with the use of drawings. This course provides students with extensive hands-on use of state-of-the-art hardware and software (AutoCAD) for producing highly accurate computer-generated drawings. Skills developed in this class will be extremely helpful to students who intend to take Architectural Drawing, Design and Drawing for Production and Residential Structures courses. (1 credit)

Advanced CAD

Advanced CAD I provides students with the opportunity to develop drawing, design and problem solving skills. Students are given a series of specific design problems and then required to produce original two-dimensional (graphic) and three-dimensional (prototype, working model, or solid) solutions for each. Assignments are either completed individually or as members of appointed design teams, depending on the problem assigned.

This course may also be taken by students pursuing an approved sequence in technology education. It involves drawing and manipulating solids. (1 credit)

CNC & Laser Processing

This course will provide the basic skills and foundation for the CNC & laser technology being utilized in an industrial manufacturing setting. Students will learn how to use a drawing program to design projects which will be cut using a CNC (Computer Numerical Control) router and laser. Along with this, the students will learn how to engrave a wide variety of materials using a laser engraver. Each student will be responsible for setting up, programming and operating the CNC router and laser to cut out or engrave their designs.

Lab activities and projects will be utilized to practice & reinforce the skills taught in class. Each student will create a variety of projects out of different materials using the CNC router and laser cutter/engraver.

Elective credit only. Not part of the Technology Sequence. Prerequisite: none. (1/2 credit)

Digital Photography

This course provides students with an in depth study of digital cameras and photo editing (correction/manipulation) in order to produce photo quality prints. Students will learn the following: differences between traditional film and digital cameras, how digital cameras operate, how and when to use the camera's advanced controls/features (white balance, exposure compensation, exposure lock, histograms, bracketing, etc.) in order to capture great pictures in a variety of settings.

Students will use a digital camera (provided) to learn, practice and apply many of the techniques that are taught in class. Then they will learn how to use an image editing program (Photoshop) to edit various aspects of their images for print and/or the internet. Editing will include: basic photo editing, cropping, removing red eye, making tonal adjustments, how to cut and paste something from one image to another, how to sharpen and/or blur parts of an image, special effects, removing scars/blemishes, using layers, borders, photo restoration/repair, adding text, etc.

Photo quality prints and collages will be made as part of the student's lab activities.

Students will be taught many of the advanced features of a digital SLR camera such as: metering modes, shutter speeds, aperture values/depth of field, color saturation, compression modes, bracketing, viewing camera information, macro mode, movie mode, color space, overexposure indicator, using an auxiliary flash unit, etc.

Students will use a digital camera (provided) to learn, practice and apply many of the camera techniques that are taught in class. Students will also use an image editing program (Photoshop) to edit/correct various aspects of their images. The editing will include some of the skills learned in Digital Photography 1 along with the following: desaturating, advanced border/frames techniques, signatures, feathering, merging images, gradients, perspective cropping, creating tattered edges, transparent labels, black & custom backgrounds, adjustment layers, layer mask, etc.

Students will produce a variety of photo quality prints including larger size images (12 X 18) and then learn how to mat and frame their images. Other projects include: product staging, creating picture packages, creating a montage, and creating a movie maker project utilizing their photos. We will also explore some other/creative ways to use our images such as post cards, digital photo frames, etc. . Grades 9-12 (1 credit)

Design and Drawing for Production

Design and Drawing for Production is used as an introductory course to the design process. This course provides opportunities in the areas of design and drawing through creative thinking, decision-making and problem solving experiences. The course will investigate the performance of a system: the impacts of a given technology on nature and society: how to select tools, materials and processes to manufacture a product: the comparison of a contemporary manufactured product, to a comparable product of 50-100 years ago: reverse engineering and other problem solving activities. Can be used for art/music credit. Grades 9-12. (1 credit)

Residential Structures

This course will cover the many kinds of residential structures and develop skills in the construction process. This will be done through presentations and laboratory activities demonstrating these concepts, including the building of scale model home sections. Recommended Prerequisite: Computer Aided Drafting. (½ credit towards Technology Sequence or ½ elective credit).

Grades 9-12

SCIENCE

Living Environment

Living Environment encompasses an intensive study of the material contained in the New York State Core Curriculum. The topics covered include Ecology, Genetics, Biochemistry, Plant and Animal Anatomy and Physiology, and Reproduction and Development. Satisfactory completion of a course in the Living Environment is required for graduation. (1 credit).

Applied Earth Science

Applied Earth Science is a course designed around the concepts of the Regents Earth Science course but without the pressure of the Regents exam at the end. Students should have a good understanding of basic math skills and should have passed the Living Environment Regents in order to satisfy his or her graduation requirement. Students who have already taken Regents Earth Science and were successful are not eligible to take Applied Earth Science, as they are almost the same course. (1 credit)

Regents Earth Science

Regents Earth Science is an intensive study of the material contained in the New York State Regents Core Curriculum. These topics include geology, astronomy, meteorology and energy. It is necessary that the students have good reading skills in order to be successful in this course. (1 credit).

Environmental Conservation

Environmental Conservation is a commencement level course designed for students that have a desire to learn more about issues affecting our local and global communities. The content of the course will include studies of local organisms, cycles of nature, environmental adaptation, ecosystems and conservation. This class is activity based including numerous nature hikes, plant identification and pond and stream studies. There is a large midterm project and a large final project at course closure. (1 credit for Life Science)

Gemini Environmental Science

Gemini Environmental Science gives an overview of how man affects the environment. Concepts include local water resources (both local & global) soil, and refuse. We discuss global perspectives concerning populations, land use and pollution. Field trips occur to the lake, local ponds, marsh & streams, with other options to a water treatment plant, and a variety of ecosystems. This course requires hands on participation, challenging text reading, formal laboratory report writing and independent thinking. A minimum of 3750 minutes (63hrs) of laboratory occurs in the course. Students should be expected to work outside of class and be prepared to do independent computer research. There will be a final exam equivalent to what would be expected in a community college course. College credit can be earned. (1 credit)

Regents Chemistry

Regents Chemistry follows the New York State Core Curriculum and students learn how chemistry is significant in their everyday lives. This course generally follows the Living Environment course in a four-year course of study. The topics covered include Atomic Structure, Bonding, the Periodic Table, Acids and Bases and Organic Chemistry. All Chemistry classes will be taught in rooms 340 and/or 341. (1 credit)

Forensic Science

This course will present the scientific principles and hands-on methods forensic scientists use to problem solve. Students will be asked to collect, examine, test, interpret, and solve problems using a variety of crime scene related substances while also adhering to laboratory procedures and expectations. Communicating information, both orally and in written form, will be stressed, as will students' use of critical thinking skills. Topics include DNA technology, document analysis trace evidence, forensic psychology, anthropology, entomology, and toxicology. (1 credit)

Gemini Biology 121– Basic principles of biology, photosynthesis and respiration, levels of cellular complexity, genetics and evolution.

Gemini Bio 122– A study of evolutionary concepts and survey of taxonomic levels of organization (domain, kingdom, phylum, class, order, family, genus, species). Emphasis will be on anatomical/physiological adaptations, life history traits and ecology of representative organisms. Prerequisite: Successful completion of BIO 121.

SOCIAL STUDIES

Global History & Geography I

Global History I begins with an introduction to the methods of Social Sciences - History, Geography, Economics and Political Science. The course will pursue the chronology of World History from the Dawn of Man through ancient civilizations to the rise of Modern Global Age. A final exam will be given at the end of this course. (1 credit)

Global History 9H

This course is designed to prepare students for the rigorous study of AP Global History II. Students will be expected to complete summer work and will have higher expectations placed on them in regards to reading, writing, and homework. This course is designed for students desiring to go to a 4 year college or university **and** who want to be academically challenged.

Global History & Geography II

Global History II will begin with a brief review of the Global Age unit covered in Global History I. It will continue to cover Modern World History. Topics will be the Age of Revolutions, Industrialization, the World Wars and the Present Years. A state regents' exam will be administered to all students in this course at the end of grade 10 which will cover both grades 9 and 10. (1 credit)

AP Global History & Geography II

AP Global History is a rigorous college survey course of Ancient and Modern World History. The course provides a comprehensive overview from the Dawn of Man, Civilizations of Europe, Africa, Asia, and Latin America. Students will be expected to do a great deal of work and learning on their own including summer work prior to entering the class. College credit will be awarded to students successfully passing the AP Global History exam. Students taking this course will receive local credit and must pass the regents exam as well. Prerequisite for this course are to have successfully completed Global History I and have a strong desire to be challenged academically. (1 credit)

United States History and Government

This course will begin with a review of American Government and Constitutional issues. It will then pursue chronologically the study of American History from the Colonial Era to the present.

A state Regents exam will be administered to all students in this course. (1 credit)

Participation in Government

This course is required for all seniors. It will emphasize the interaction between citizens and government at local, state, and national levels. It will be based upon knowledge about the formal powers, procedures and structures of United States government developed in earlier courses. The students will develop skills in analyzing public policy issues and participate in some aspects of school, community or government service through a practice component. Prerequisite: Passing US History and Government 11 (½ credit).

AP US Government and Politics

AP US Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles and behaviors that characterize the constitutional system and political culture of the United States. Students will study US foundational documents, Supreme Court decisions and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

Economics

This course is required for all seniors. This course will deal with the basic economic concepts and understandings which all persons will need to function as citizens and participants in the economy of the United States and of the world. Topics examined include the basic principles of economics, micro and macroeconomics, the world economy, and international trade. (½ credit)

Psychology

This course is an examination of the basic concepts in the field of psychology. The student will investigate personality theories, intelligence development, normal and abnormal behavior, psychological testing, treatment of abnormality, understanding of ones self and other related topics. Grades 10-12 (1/2 credit)

College Courses

COURSE NAME	CREDITS	AFFILIATED COLLEGE	COST TO STUDENT
Gemini English	6	FLCC	\$30 fee
Gemini Env. Science	4	FLCC	\$20 fee
Gemini Bus. Org. & Lead	4	FLCC	\$20 fee
Gemini Computer Applic.	3	FLCC	\$15 fee
Gemini Pers. Money Mgt	3	FLCC	\$15 fee
Gemini Business Math	3	FLCC	\$15 fee
Gemini Intro to Calc	3	FLCC	\$15 fee
Gemini Computer Science	3	FLCC	\$15 fee
Gemini Spanish 4	3	FLCC	\$15 fee
Gemini Spanish 5	3	FLCC	\$15 fee
Gemini Biology	3	FLCC	\$40 fee
Gemini US History	3	FLCC	\$15 fee
CAP Digital Photo	3	CCC	Free
CAP Dark Room Photo	3	CCC	Free
CAP Essentials of Art	3	CCC	Free
AP Drawing	dependent upon exam score	AP exam	\$89 exam fee
AP Calculus	dependent upon exam score	AP Exam	\$89 exam fee
AP World History 10	dependent upon exam score	AP exam	\$89 exam fee
AP Government & Politics	dependent upon exam score	AP exam	\$89 exam fee
AP English Literature and Composition	dependent upon exam score	AP exam	\$89 exam fee
AP Environmental Science	dependent upon exam score	AP exam	\$89 exam fee

**Tech Prep program – Credit can be transferred to FLCC for students seeking a degree in business.