

COURSE GUIDE

2009 - 2010

**ART
BUSINESS
ENGLISH
FAMILY AND CONSUMER SERVICES
FOREIGN LANGUAGE
HEALTH
MATHEMATICS
MUSIC
PHYSICAL EDUCATION
SCIENCE
SOCIAL STUDIES
TECHNOLOGY**

**CAREER AND TECHNICAL PROGRAMS
NEW VISIONS PROGRAMS
COLLEGE CREDIT OPPORTUNITIES
DISTANCE LEARNING COURSES**

Dear Berne-Knox-Westerlo Student:

This academic and career planning guide contains valuable information to guide you through high school and into your future. The ultimate goal, regardless if you choose a college preparatory path or a career and technical path, is the same for everyone; a lifelong interest in learning and working in a satisfying career.

One of the most important decisions you will make is choosing a career that will be rewarding and satisfying. Your career search will combine looking at the type of work you enjoy with the education and training needed for that particular career and the kind of lifestyle you will be able to lead. The term "career" is not just a job but a combination of all these factors.

It takes time, research and exposure to different careers to help you in the process of deciding what you want to do after high school. It is never too early to start thinking about your future career plans. This planning guide is designed to help you realize that you do have many choices and you should use your time at B-K-W to research and evaluate these choices.

These next four years of high school give you the opportunity to obtain the necessary education, training, skills and experience to prepare you for your future.

To increase your chances of success, take the most challenging academic courses available, become involved in extracurricular activities in and out of school and work to your potential.

Good luck!

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It is the hope and intention of the Berne-Knox-Westerlo Central School District that all students will possess the following skills and qualities:

Basic skills

- ✓ **Reading**
 - Locate, understand and interpret written information in prose and in documents
- ✓ **Writing**
 - Communicate thoughts, ideas, information, and messages in writing
- ✓ **Arithmetic/Mathematics**
 - Perform basic computations and practical problems through a variety of mathematical techniques
- ✓ **Listening**
 - Receive, attend to, interpret, and respond to verbal messages and cues
- ✓ **Speaking**
 - Organize ideas and communicate orally

Thinking skills

- ✓ **Creative Thinking**
 - Generate new idea
- ✓ **Decision Making**
 - Determine specific goals and constraints, generate alternatives, consider risks, and evaluate and choose best alternative
- ✓ **Problem Solving**
 - Recognize problems and devise and implement a plan of action
- ✓ **Know How to Learn**
 - Use efficient learning techniques to acquire and apply new knowledge and skills

Personal qualities

- ✓ **Responsibility**
 - Exert a high level of effort and persevere towards goal attainment
- ✓ **Self-Esteem**
 - Believe in own self-worth and maintain a positive view of self
- ✓ **Sociability**
 - Demonstrate understanding, friendliness, adaptability, empathy, and politeness in group settings
- ✓ **Self-Management**
 - Assesses self accurately, set personal goals, monitor progress, and exhibit self-control
- ✓ **Integrity/Honesty**
 - Choose ethical course of action

New York State Graduation and Diploma Requirements

Regents Diploma with Advanced Designation - 24 units

4 units in English	English Language Arts Regents Exam
4 units in Social Studies	Global History & Geography Regents Exam
	US History & Government Regents Exam
3 units in Math	Math A Regents Exam or Algebra Regents Exam
	Math B Regents Exam or
	Geometry Regents Exam &
	Intermediate Algebra/Trigonometry Regents Exam
3 units in Science	2 Regents exams (Earth Science/Living Environment/Chemistry or Physics)
3 units in Foreign Language or 5 unit sequence from either Art, Music, Career & Technical program or Technology	French or Spanish Regents Exam
2 units in Physical Education	
1 unit in Art and/or Music	
½ unit in Health	
½ unit in Human Development/Parenting	
Elective units to total 24	

Regents Diploma - 22 units

4 units in English	English Language Arts Regents Exam
4 units in Social Studies	Global History & Geography Regents Exam
	US History & Government Regents Exam
3 units in Math	Math A Regents Exam or Algebra Regents Exam
3 units in Science	1 Regents exams (Earth Science/Living Environment/Chemistry or Physics)
1 unit in Foreign Language	
2 units in Physical Education	
1 unit in Art and/or Music	
½ unit in Health	
½ unit in Human Development/Parenting	
Elective units to total 22	

Course selection throughout high school can significantly impact options after high school. Students should always take the highest level of academic course work they can successfully handle, along with electives that offer a view into different careers. All students are encouraged to prepare for continuing their education beyond high school. This can be at a four or two year college, technical college, apprenticeship or job training program.

Students must successfully complete the following number of units to be promoted to the next grade. The promotional policy for the high school (grades 9 – 12) is based upon the accumulation of units rather than the number of years students are enrolled in the high school.

Sophomore at least 6 units

Junior at least 12 units

Senior at least 18 units

Students in grades 9 – 11 should enroll in a minimum of 6 ½ units per school year. In order for seniors to be granted senior privileges students should enroll in a minimum of 6 units.

It is the practice of the Berne-Knox-Westerlo CSD not to allow students to drop a full year course after the first five weeks of school. A drop/fail will be printed on the academic transcripts if the course is dropped after the first five weeks.

ART

Students must complete one unit of Art and/or Music in order to graduate. A student may elect a five-unit art sequence in place of the three-unit foreign language sequence for the Advanced Regents Diploma.

Foundations in Art:

Prerequisite:	None
Credit:	½ Unit
Length of course:	½ Year
Grade level:	9-12
Type of Exam:	Project Based

This course can be combined with Studio in Graphic Design, Studio in Pottery (10-12), and Studio in Sculpture (10-12) for a full unit which meets the State graduation requirements for the arts. It may also be combined with courses in Music, Technology and Home & Careers also for the full credit. Students should enjoy art and want to explore a range of mediums and styles.

Studio in Art:

Prerequisite:	Recommendation of Art instructors and a grade of 87 or better in 8 th grade art.
Credit:	1 unit
Length of course:	Full year
Grade level:	9 - 12
Type of Exam:	Local and portfolio review

This course is intended for the **serious** art student who intends to take the advanced courses of Drawing and Painting & Advanced Drawing and Painting. There are mandatory sketchbook assignments due every two weeks. The projects are linked with artists, art history, techniques, critiques and there are unit tests with each project. The course is comprised of working with different mediums such as: pencil, watercolor pencil, colored pencil, charcoal, clay, printmaking and tempera paint. Attention to detail, a good work ethic and ability to meet deadlines is important to succeed in this class. This class meets the State graduation requirement for the arts.

ART

AP Art History:

Prerequisite:	None (AP World History may be helpful)
Credit:	6 college credits (with a score of 3 or better on AP exam) or 3 credits through Schenectady County Community College
Length of Course:	1 year
Grade level:	11-12
Type of Exam:	AP and local
Cost:	\$85.00

This is a heavy duty reading and writing course using a standard college text and many supplemental readings. Field trips, Power point presentations, slide shows and lectures on a regular basis create the forum for the self-motivated student to learn about the world, cultures and how art is a large part of all our lives. There is an 8-10 page research paper and a power point presentation due in April.

Drawing & Painting:

Prerequisite:	Studio in Art
Credit:	1 unit
Length of Course:	Full year
Grade level:	10-12
Type of Exam:	Portfolio Review

Drawing and Painting is recommended for students who want to develop a portfolio and pursue art after completion of a full year of Studio in Art. Experiences in this course are aimed at challenging a student's ability as well as encouraging a personal approach. A variety of media will be used to explore the figure, still life, portraiture, landscaping, and interiors. Emphasis will be on developing observational drawing and painting. Students will study major works of artists and art movements. Class presentations and self-critiques will assist students in forming value judgments about art. **Students will have sketchbook assignments due every other week.** During the month of May, there is an optional field trip to the Metropolitan Museum of Art in NYC.

Advanced Drawing & Painting :

Prerequisite:	Drawing and Painting
Credit:	½ Unit
Length of course:	½ Year
Grade level:	10-12
Type of Exam:	Local

This course is an advanced elective concentrating on materials and techniques in drawing and painting. The course will focus on drawing from life, such as figure drawing, portraiture and still life. There will be sketchbook assignments to explore observational drawing, creativity and especially self-expression. Students will work on developing more for their portfolio to meet college requirements. Often we study for a day with artist John Leoni at his studio.

ART

Graphic Design:

Prerequisite:	Foundations or Studio in Art
Credit:	½ Unit
Length of course:	½ Year
Grade level:	10 – 12
Type of Exam:	Local

This course will explore the seven essentials of graphic design: research, typography, contrast, layout, grid systems, logos, logotypes, critiques and analysis. This course is designed to help students develop a knowledge and understanding of the skills used in advertising design. Students will learn creative problem solving for visual communication, and gain experience with industry standard computer programs. The history of graphic design styles will be covered as well as careers in the field of advertising design.

Desktop Publishing:

Prerequisite:	Graphic Design (recommended)
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	12
Type of Exam:	Critique

The purpose of this class is to learn about the publishing business through the publication of the yearbook. Graphic design, layout, typography, computer graphics, photography and legal issues are part of the every day work. Outside work is expected.

Studio in Sculpture: (offered every other year, spring odd years)

Prerequisite:	Foundations or Studio in Art
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	10-12
Type of Exam:	Local

Studio in Sculpture provides opportunities for self-expression in three dimensional design in a variety of media techniques, such as modeling the human figure or life-size heads in clay, mask making, carving, abstract and nonobjective forms in plaster, constructing environments that represent dreams, repelling or inviting interiors, in paper, wood, plastic and found objects, and wood relief sculptures. The course offers both aesthetic and technical experiences so that the student will be able to understand and appreciate this art form, acquire dexterity, sensitivity and mastery of technique to control the media, and learn to express himself in resistant or plastic media. Each unit will focus on a famous sculptor and his/her influence on the history of sculpture.

ART

Photography I :

Prerequisite:	Foundations or Studio in Art
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	11- 12
Type of Exam:	Local

This course teaches the fundamentals of black and white photography. Instruction begins with readings, lecture and discussion of the aesthetics of photography, moves through a brief history to the science and art of making photos with the camera and in the darkroom. Hand coloring prints and papermaking can be explored. Students are expected to finish class projects and an independent project, which is weighed with both a written and practical final exam; a unit in Digital photography is included.

Photography II:

Prerequisite:	Photo I with a final grade of 90 or above
Credit:	½ Unit
Length of Course:	½ Year
Grade level:	11 - 12
Type of Exam:	Local

This course builds on and goes beyond Photo I. Units included are technology & photography, color slide work, building a portfolio, publishing photographs and designing t-shirts.

Studio in Pottery & Clay work: (offered every other year, spring even years)

Prerequisite:	Foundations or Studio in Art
Credit:	½ Unit
Length:	½ Year
Grade:	11 or 12
Type of Exam:	Local

Studio in Pottery is designed to explore the medium of clay and surface design with various types of glaze and etching techniques. Hand building techniques will be explored and subject matters such as jomon pottery, mosaic tiles, mobiles, and abstract relief designs will be covered. Artists will be studied for each unit. The history of pottery will determine the chronology of the projects. There may also be a mixture of photo transfer on pottery if there's time.

Independent Art:

Prerequisite: Approval from Teacher

This course is for the student who has taken all the electives and wants to go further in the field. A contract is developed and adhered to for a full or half credit. The student must be responsible and independent, meeting with the instructor on a weekly basis before school or 13th period.

BUSINESS

The course offerings given through the Business Education department are recommended for both the career and technical education student as preparation for entry into the job market upon graduation and as enrichment for the college bound student as a necessary general knowledge base required for success at the post-secondary level. These courses may be offered on a rotating basis depending on interest.

Career and Financial Management:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	1/2 Year
Grade Level:	9-12
Type of Exam:	Local

Career and Financial Management is designed to prepare students with the skills necessary to make them competitive in the 21st century job market, and is recommended for every student as the skills taught are universal. It is the required introductory course for Career and Technical Education programs and the introductory course for the five-unit sequence in technology. The class first explores our economic system as seen through the eyes of the student as a consumer, a worker, and an entrepreneur.

The next several components blend into logical progression starting from the point at which a career is chosen, through the employment phase, successful attainment of the job, and achieving job satisfaction. The class will explore employment clusters: agriculture, business, human health services and technology through field trips, guest speakers, Internet sources and hands-on activities.

Personal money management is surveyed through examination of payroll checks, taxes, budgets, and investments and savings. Word processing, spreadsheet, and power point software is integrated throughout the curriculum.

Computerized Accounting:

Prerequisite:	Math A or Algebra
Credit:	1 Unit
Length of Course:	Full year
Grade Level:	10 - 12
Type of Exam:	Local

This course is designed to develop occupational competencies in accounting. It is also recommended for students going on to post-secondary business training such as: Accounting, Management, or Finance. The course content encompasses the complete accounting cycle for service and merchandising businesses including: journalizing daily transactions, posting to the ledgers, making period ending adjustments, and completing financial statements. The double-entry theory of accounting is emphasized. Computer spreadsheets and accounting software is used to complete accounting reports. Special units on cash control (checking accounts & payroll accounts) are included.

BUSINESS

Fashion Marketing:

Prerequisites:	None
Credit:	½ Unit
Length of Course:	½ year
Grade Level:	9-12
Type of Exam:	Local

This course is designed to introduce students to the fashion industry. Focusing on current fashion trends, students will acquire an understanding of fashion terminology, the consumers of fashion, and the specific marketing strategies used to retail fashion in the new millennium. Guest speakers will be invited to provide students with “Real World” perspectives and experiences.

Business Law:

Prerequisite:	None
Credit:	1 Unit
Length of Course:	1 year
Grade Level:	11 - 12
Type of Exam:	Local

The emphasis of Business Law is on the individual and his or her relationship with the law. Topics discussed include: the history of our judicial system, contracts, torts, crimes, insurance, and employment; an in-depth study of our constitutional rights and responsibilities with a strong emphasis on our Bill of Rights; special laws relating to minors, consumers and businesses; what constitutes a binding contract and what recourse does one have in contractual situations; general insurance law and the protection against loss, both through negligence, as well as, liability.

Entrepreneurship:

Prerequisite:	None
Credit:	1 Unit or ½ Year
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

A course designed to provide students with a background in managing a small business. Content will include: selected "entrepreneurial" skills - i.e. motivation, ideas management, concept development, as well, as the related general marketing functions as they relate to day-to-day business operations. This course has been expanded to include the skills and abilities necessary to become an employee in a “Fortune 500” company and be involved with the continuing movement of business from regional to global.

BUSINESS

E - Commerce Ed:

Prerequisite:	None
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	11-12
Type of Exam:	Local

The E -Commerce course provides a new and exciting way for high school students, in their junior or senior year, to learn about e-Commerce and it's role in today's information-driven economy. Through the linkage of the latest information technology and hands-on application of modern advertising and marketing strategies, students operate their own e-Commerce business right from their own classroom. This course develops the teambuilding, time-management, communication, organization, critical thinking and decision-making skills needed to progress toward future success in collegiate programs and gainful employment in a high-tech business environment.

Principles of Marketing:

Prerequisite:	None
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

This course is designed to develop the basic competencies necessary for a career in a variety of marketing (sales) job areas. Course content consists of basic marketing/sales functions with emphasis on the retail industry. Advertising and sales techniques are illustrated via video, simulations, and field trips. The contracting job base for unskilled workers makes it extremely important that students are equipped for the market place of the future. Products are being brought to the marketplace at an astounding pace. The course will also cover how to stimulate interest in, and the expansion of, new and existing markets, and how they are best assessed.

Sports Marketing:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ year
Grade Level:	10 - 12
Type of Exam:	Local

This course will address issues and concepts in the 21st Century as they relate to basic marketing functions and processes. The specific areas of application will be in sports and athletic marketing, entertainment and "personality" management (differentiate between professional and amateur athletes), and event and venue operation and promotion. The following topics will also be discussed: marketing products through sports; sponsorships; promotion and the concepts of "endorsements"; public relations and fan programming; community service and image considerations. There has yet to be a product invented or an athlete/entertainer or venue that doesn't need to be promoted.

BUSINESS

Agricultural Business:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year (Spring Only)
Grade Level:	9 -12
Type of Exam:	Local

Plants, flowers and landscape design will be the topics. This class will deal with greenhouses growing plants and vegetables, on the computer planning landscapes and outside maintaining flower beds and installing trees. It will discuss agricultural careers and job opportunities. This class will focus on the production of growth, landscaping, and maple syrup using entrepreneurship, business management and accounting applications.

Personal Finance:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	9-12
Type of Exam:	Local

This course focuses on every aspect of a person's financial life. Over the course of the semester the class will cover the following topics. What is Personal Finance (an Introduction), budgeting, types of compensation, managing a checking account, comparison shopping, credit (including credit cards), bankruptcy, student loans (FICA), mortgages, leasing, renting, insurance (home, life, auto, etc), saving and investing, taxes and home purchase.

Advertising:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	10-12
Type of Exam:	Local

Students will learn how to put together words and images that make a viewer stop, look, and listen. Students will create advertising that communicates ideas and concepts clearly. Students will create posters, pamphlets, logos, and ads. Students will also learn how to create symbols and images that convey a message

BUSINESS

Financial Math:

Prerequisite:	None
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	11-12
Type of Exam:	Local

Financial Math is designed to prepare students for the real world. Topics include gross income, net income, checking accounts, loans, housing costs, insurance, investments, purchasing, sales, etc.

DRIVER EDUCATION

Driver Education:

Prerequisite:	Students must be 16 at the start of the course and hold a learner's driving permit.
Credit:	½ Unit
Length of Course:	6 weeks (summer) or 1 semester
Grade Level:	11-12
Type of Exam:	Local

Driver Education teaches students the basic car maneuvers and the skills needed to become a good driver. It emphasizes the basic mechanics of driving and the proper attitudes necessary behind the wheel all good drivers should possess.

The course covers many major topics including rules of the road, special driving situations, emergency situations, adverse conditions, insurance and licenses, as well as alcohol and driving laws.

The student must pass both the lecture and practical parts of the course with at least a 65 to complete this course and receive the MV285 certificate. Attendance is strictly supervised, due to DMV regulations for class requirements.

ENGLISH

Students must complete four units in English and pass the Comprehensive English Regents exam in order to graduate.

English 9:

Prerequisite: English 8
Credit: 1 Unit
Length of Course: 1 Year
Type of Exam: Local

English 9 focuses on the development of English Language Arts Standards in reading, writing, speaking, and listening skills through a process approach. Students are involved in individual, group, and project work throughout the year.

English 10:

Prerequisite: English 9
Credit: 1 Unit
Length of Course: 1 Year
Type of Exam: Local

The objective of this course is to develop proficiency in English Language Arts Standards through the writing process, listening and reading activities, analysis of world literature, and vocabulary development.

English 11:

Prerequisite: English 9 & 10
Credit: 1 Unit
Length of Course: 1 Year
Type of Exam: Local

This full-year course prepares students for the Comprehensive Regents Examination in English. Students will study selected works in American literature, which will help them develop reading, writing, speaking and listening skills. Independent reading, reader response writing, and portfolio development are implemented in cooperative learning groups to build team-learning skills for the workplace. The final exam in this course consists of an evaluation of a portfolio of the student's work.

English 12 I:

Prerequisite: English 9, 10 & 11
Credit: ½ Unit
Length of Course: ½ Year
Type of Exam: Local

The course studies a variety of literary genres and includes units on problem solving strategies, technical writing, and communication in the workplace. Class discussions allow students to develop their own values and opinions.

ENGLISH

English 12 II:

Prerequisite:	English 9, 10 & 11
Credit:	½ Unit
Length of Course:	½ Year
Type of Exam:	Local

The course studies a variety of literary genres and includes units on problem solving strategies, technical writing, and communication in the workplace. Class discussions allow students to develop their own values and opinions. A full year of English 12 will help students develop and practice communication skills in preparation for entering college or the job market.

British Literature:

Prerequisite:	English 9, 10, 11 or American Literature combined with either Drama or Film & Literature
Credit:	½ Unit
Length of Course:	1 year (every other day)
Grade Level:	12
Type of Exam:	Local

British Literature is a full year course that surveys major works in a historical, chronological approach. Major periods explored include the Anglo Saxon, Medieval, Renaissance, Romantic, and Modern. Students write an analytic paper, read a Shakespearean play and a major Victorian novel.

Creative Writing:

Prerequisite:	English 9 & 10 and enrollment in English 11
Credit:	½ Unit
Length of Course:	½ Year (spring)
Grade Level:	11-12
Type of Exam:	Local

Creative writing explores descriptive, expository, narrative, and poetic forms. Students generate ideas through free writing techniques such as the journal, timed-writing exercises, and group compositions. Students develop a sense of audience and its input into the writing process. A writing portfolio will count for the final exam.

American Literature:

Prerequisite:	English 9 & 10 and English 10 teacher recommendation
Credit:	½ Unit
Length of Course:	½ Year (fall)
Grade Level:	11
Type of Exam:	Local

American Literature, taught from a historical perspective, is reading/writing intensive. Its purpose is to prepare students for the Comprehensive English Regents exam in January and for college-level English courses. Research projects and analysis papers are the major method of evaluating the four English Language Arts Standards. **Students in their junior year must combine this course with either Drama or Film & Literature to receive the full year of English credit.**

ENGLISH

Drama:

Prerequisite:	English 9 & 10
Credit:	½ Unit
Length of Course:	½ Year (spring)
Grade Level:	11-12
Type of Exam:	Local

Three objectives of this course include understanding, performing and appreciating drama. To accomplish these things, scenes and plays are read, discussed, improvised, and performed in class. Students also attend professional productions.

Advanced Placement Literature & Composition:

Prerequisite:	English 9, 10, 11 & American Literature
Credit:	½ Unit
Length of Course:	1 Year
Grade Level:	12
Type of Exam:	Local / AP Exam in Literature & Composition (fee required)

AP Literature & Composition is designed to provide students with the analytical skills and factual knowledge necessary to deal with the problems and materials in both literary discourse and the composing process. Emphasis is placed on students learning multiple approaches to literary criticism and honing critical writing through peer writing groups. Students are required to take the Advanced Placement Examination in Literature and Composition. Students who successfully complete their exam may be eligible to receive college credit in English.

Teacher / Department Chair / Principal approval required to be excused from the AP exam.

Multi-Media English:

Prerequisite:	English 9 & 10
Credit:	½ Unit
Grade Level:	11-12
Length of Course:	½ Year
Type of Exam:	Local

The Multi-Media English class includes research and writing skills development in a variety of media from a classroom as well as business perspective. Due to the increasing technical writing needs of today's society, students will gain experience in blogging, professional emailing/texting and other forms of communication. Research practices, field trips to local libraries and SAT/ACT skills practice will also be included.

ENGLISH

Communications:

Prerequisite:	English 9, 10, 11 or American Literature combined with either Drama or Film & Lit.
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	12
Type of Exam:	Local

Students will explore how and why people communicate. Each student will learn by researching exercises related to the media including television, radio, literature, journalism, advertising and public speaking. Reading and writing skills are important aspects of each project. The course objectives are to increase poise and self-confidence with varying audiences. This course serves as a vehicle for all students to develop school to work skills through classroom and community activities.

Film & Literature:

Prerequisite:	English 9 & 10 and English 11 or combined with American Literature
Credit:	½ Unit
Length of Course:	½ Year (fall or spring)
Grade Level:	11-12
Type of Exam:	Local

"Quiet on the set, rolling, action, take one!" These are the words students will explore along with the art and history of film. They will produce original video/film related projects. Students will study specific film-related literature and develop their own writing skills directly related to multi-media production. Equipment such as video cameras, computers, and digital still cameras are integrated into this curriculum. This is a "learning-through-doing" environment that explores "real-world" employment opportunities through classroom and community activities

FAMILY AND CONSUMER SERVICES

Food and Nutrition:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	9-12

The students run a small business “Buy ‘n Fly” in conjunction with a business class. This helps to develop skills in menu planning, food purchasing, preparation and service. Students also explore careers and employment opportunities in the food and nutrition field. A variety of meals will be prepared involving the basic four food groups plus international foods. Emphasis is placed on eating healthy and cooking light.

Clothing & Textiles:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	9-12

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. This course can be used to satisfy 1/2 unit of the Art mandate for students pursuing an occupational education sequence. Students are required to complete a clothing project commensurate to their skills. In addition, teacher provided projects are available.

Housing & Environment:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	9-12

The content of this course is designed to provide a foundation for management of housing information as it relates to individual inhabitants. Students keep a portfolio demonstrating their ability to apply the fundamentals of color, balance and harmony in rooms. They also design their own floor plan for the ideal room of their choice. This course can be used to fulfill one-half unit of the Art mandate for students pursuing an occupational education sequence.

Parenting: (Required)

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	10-12

This course is designed to examine the family unit and the changes that take place within the family's cycle. The students will understand the roles and responsibilities of parenting, prenatal development, and the developing child. The students will also be able to identify traits of a healthy family, and services available when help is needed. Students will be asked to participate in a variety of projects one of which will be “Baby Think it Over.” The students will be given an infant stimulator and will care for the baby for 24 hours.

FOREIGN LANGUAGE

Advantages of studying a foreign language are many – it expands one’s own world and opens up the mind to other cultures, and thus hopefully will help to promote understanding of people whose lives, traditions, and beliefs are different than our own. A second language is a desirable and sometimes essential qualification for many careers.

Three units of study in a foreign language as well as a passing grade on the Regents exam are required for the Advanced Regents Diploma.

French I:

Prerequisite:	None
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

Students will study basic, common words and expressions dealing with familiar situations from everyday life. Reading and writing skills will begin to develop as well as speaking and listening. *This course is designed for students who need to complete a NYS Foreign Language requirement or who are interested in beginning a course of study in French.

French II:

Prerequisite:	French I or a minimum score of 65% on proficiency exam
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

French II is a continuation of level one with an emphasis on more complex and diverse vocabulary and grammar in order to communicate on a high level. It is offered to students who are planning on taking the NYS French Comprehensive Regents Examination at the end of the French III Course.

French III:

Prerequisite:	French II
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

Reading, writing, speaking and listening skills will be further developed and refined with a greater stress on verbal skills. A Regents exam is required at the end of this course.

French IV:

Prerequisite:	French III and Regents Exam with an overall 85% average
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	11-12
Type of Exam:	Local

This course offers students an option to continue in a language. French IV will stress the development of oral and written expression at a higher and more intensive level. Students will be exposed to all aspects of the language with emphasis on listening, speaking, reading, writing, and culture. In general, our student goals should be to understand essential points of discussions, speak more confidently in the language, increase comprehension through literature, express written thoughts in an organized manner, and show an understanding and appreciation of the culture being studied.

FOREIGN LANGUAGE

Spanish I:

Prerequisite:	None
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

The main goal in studying a foreign language is to enable the student to express him/herself and to communicate. Students will study basic, common words and expressions dealing with familiar situations from everyday life. Reading and writing skills will begin to develop as well as speaking and listening. This course is designed for students who need to complete a NY State Foreign Language Requirement or who are interested in beginning a course of study in Spanish.

Spanish II:

Prerequisite:	Spanish I or a minimum score of 65% on the proficiency exam
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

Spanish II is a higher-level Spanish course offered to students who are interested in taking Spanish Comprehensive Regents Examination and obtaining their Advance Regents Diploma. This course starts preparing students for the Regents test that will be offered at the completion of the Spanish III course. Emphasis will be given to more complex, diverse vocabulary and grammar.

Spanish III:

Prerequisite:	Spanish II
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

Reading, writing, speaking and listening skills will be further developed and refined with a greater stress on verbal skills. A Regents exam is offered at the end of the course.

Spanish IV:

Prerequisite:	Spanish III and Regents Exam with an overall 85% average
Credit:	4 College Credits (fee required)
Length of Course:	1 Year
Grade Level:	11-12
Type of Exam:	Local

Spanish IV is a University in the High School course offered to students who are serious about academics and want to pursue their interest in the Spanish language and culture. This class offers college bound students an option to continue language instruction while earning college credit.

Spanish IV stresses the development of oral and written expressions at a higher level. Students will be exposed to many aspects of the language. We will emphasize listening, speaking, reading, writing, and cultural differences and similarities.

HEALTH

Health:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade:	10-12
Type of Exam:	Local

High school health is a skills-based curriculum created based on the New York State guidelines. Throughout the semester students will focus on the seven essential skills of communication, decision-making, planning and goal setting, stress-management, self-management, advocacy and relationships. Skills listed will be mastered using functional knowledge such as drug awareness, human sexuality, as well as personal health and fitness and violence prevention.

Successful completion of this course is a requirement for graduation from high school.

Sports & Medicine:

Prerequisite:	HS Health
Credit:	½ Unit
Length of Course:	½ Year
Grade:	11-12
Type of Exam:	Local

This is an elective course worth ½ credit designed for students who are interested in health/sport related careers. During the twenty weeks, we will cover the basics of prevention, evaluation, treatment, and rehabilitation of sports related injuries and gain a working knowledge of the athletes' body as well as complete all requirements for American Red Cross Adult CPR/AED and First Aid Certification. This class is open to those currently enrolled in or who have successfully completed HS Health.

MATHEMATICS

Students must complete three units of mathematics and pass the Math A Regents exam or Integrated Algebra Regents in order to graduate. The Math B exam or Geometry with Algebra 2/Trig is required in order to receive an Advanced Regents Diploma.

Algebra:

Prerequisite: 8th grade Math average 80 or above and teacher recommendation
Credit: 1 Unit
Length of Course: Full year
Grade Level: 9
Type of Exam: Local and Algebra Regents

This course is designed for the student who is planning to attend a two or four-year college or university. This is the first of four courses intended to be used as a sequence traditionally taught in ninth through twelfth grades. The course emphasizes algebra, the solution of problems using equations, and the graphing of equations and inequalities, probability and statistics.

Algebra 1:

Prerequisite: 8th Grade Math
Credit: 1 Unit
Length of Course: Full year
Grade Level: 9
Type of Exam: Local

This course is designed for the student who is planning to attend a two-year college, technical school or directly enter the work force. It is the first course of a two-year sequence in Algebra.

Algebra 2:

Prerequisite: Algebra 1
Credit: 1 Unit
Length: Full year
Grade Level: 10-11
Type of Exam: Algebra Regents

This course is designed for the student who is planning to attend a two-year college or technical school. It is the second course of a two-year program, which will prepare students to meet their graduation requirement of passing the Algebra Exam.

MATHEMATICS

Advanced Algebra with Trig:

Prerequisite:	Geometry with final average of 75
Credit:	I Unit
Length of Course:	Full year
Grade Level:	10 -12
Type of Exam:	Algebra 2 w/Trig Regents

The third year of the integrated math sequence continues the topics introduced in the first two years and introduces some new ones. Work with polynomial expressions leads into the introduction of the set of complex numbers. The families of functions to be studied will include polynomials, absolute value, radical, trigonometric, exponential, and logarithmic functions. Students will solve equations algebraically and graphically. 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. Other topics include: Statistics, Probability and Sequences. The Algebra 2 with Trigonometry Regents exam will be taken in June.

Geometry:

Prerequisite:	Algebra or Algebra 2
Credit:	1 Unit
Length of Course:	Full year
Grade Level:	9-11
Type of Exam:	Geometry Regents

Euclidian Geometry is studied with emphasis on an axiomatic system and proof. The properties of geometric figures are studied with the aid of Analytical Geometry. Transformational and Coordinate geometry will also be studied.

Geometry I:

Prerequisite:	Algebra or Algebra 1 and 2
Credit:	1 Unit
Length:	Full Year
Grade Level:	10 - 12
Type of Exam:	Local

This course is designed for the student who is planning to attend a two-year college, technical school or directly enter the work force. A student who took Algebra 2 or a student who had difficulty with Algebra can take this course. It is the first course of a two-year sequence in geometry.

Geometry II

Prerequisite:	Geometry I
Credit:	1 Unit
Length:	Full Year
Grade Level:	11-12
Type of Exam:	Geometry Regents

This is the second course of a two-year sequence in Euclidean Geometry. The emphasis is on an axiomatic system and proof. The properties of geometric figures are studied with the aid of Analytical Geometry. Transformational and Coordinate geometry will also be studied.

MATHEMATICS

Pre-Calculus:

Prerequisite:	Passing of Math B with final average of 80 and Math B Regents
Credit:	1 Unit
Length of Course:	Full year
Grade Level:	11-12
Type of Exam:	Local

This course is designed for the college bound student who intends to continue their study of mathematics and/or natural and physical science. Its purpose is to review and expand such topics as analytic geometry, vectors, probability, matrix algebra, and limits with an overall goal of preparing students for calculus.

AP/UHS Calculus:

Prerequisite:	Passing of Pre-Calculus with final average of 80
Credit:	1 Unit College credit (fee required)
Length of Course:	Full year
Grade Level:	12
Type of Exam:	Local AP exam in Calculus (fee required)

This high-level math course will serve as the fifth course in a five-year sequence in mathematics. The course develops the basic concept of a function, plane analytic geometry, limits, continuity, differentiation, and integration of algebraic functions with applications. Credit can be earned from the University at Albany through successful completion of this course.

Statistics:

Prerequisite:	Math B
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	11-12
Type of Exam:	Local

Statistics is a course designed to cover topics in relation to the collection, and analyzing of data. It is intended for students who pass the Math B Regents exam, but are not expected to take the path to calculus. This course will cover topics that are normally covered in the college level statistics course and will thoroughly prepare students for the level of mathematics that is required in the majority of college majors.

The course begins with an emphasis on the collection and organization of data through the construction of graphs and histograms. This information is then analyzed by expanding on the ideas presented in Math B regarding the normal distribution and summation. The expansion of these ideas will include concepts of the normal distribution not covered in the Math B curriculum as well as a more thorough synopsis of the variance and measures of central tendency. The conclusion of the course will cover topics in probability as it relates to how the data is distributed.

MUSIC

Students must complete one unit of Music and/or Art in order to graduate.

High School Band:

Prerequisite:	7th & 8th Grade Band (or equivalent playing ability, and permission from instructor)
Credit:	½ Unit
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

High School Band is open to students who have played in 7th and 8th grade band and/or have demonstrated a playing ability on an intermediate or higher level. Students are required to participate in all concerts and parades to receive credit for band.

Jazz Band:

Prerequisite:	Audition for instructor
Credit:	Certificate of Participation in student file
Length of Course:	1 year
Grade Level:	9-12
Type of Exam:	Local

Jazz Band is a course designed to explore jazz, pop, and rock styles of music. Ability to improvise is also helpful.

High School Chorus:

Prerequisite:	7 th and 8 th grade chorus helpful and permission from instructor.
Credit:	½ Unit
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

High School Chorus is open to all students who enjoy singing and wish to improve their musical skills. Students are required to participate in all concerts to receive credit for choir.

Chamber Singers:

Prerequisite:	High School Choir and Audition for instructor
Credit:	Certificate of Participation in student file
Length of Course:	1 Year
Grade Level:	9-12
Type of Exam:	Local

Chamber Singers is a select vocal ensemble with a maximum enrollment of 24 students (6 for each voice part). The group specializes in more advanced repertoire and acappella singing. Various styles of music are explored and performed, from classical to jazz and rock.

MUSIC

Music in Our Lives:

Prerequisite:	None
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	9-12
Type of Exam:	Local

Music in Our Lives is a comprehensive music course designed to meet the needs of students regardless of background or ability.

Music Theory:

Prerequisite:	High School Band and/or Chorus
Credit:	½ Unit
Length of Course:	½ Year
Grade Level:	9-12
Type of Exam:	Local

Music theory is a comprehensive music course designed to educate more advanced music students on the fundamentals of music notation, composition, and theory.

PHYSICAL EDUCATION

Physical Education:

Prerequisite:	None
Credit:	½ Unit (if passed successfully in each grade 9- 12) Need 2 Units to complete requirements for graduation
Length of Course:	Full Year (Alternating days)
Grade Level:	9 – 12
Type of Exam:	NYS Physical Fitness Test Skill and Written Tests – grading will be based on skill, knowledge, participation, attendance and conduct as indicated on the grading rubric.

The physical education course is designed to provide students with the basic background and skills necessary to compete and enjoy team sports and other physical lifetime activities; to aid in the development of physical fitness; to develop an appreciation of the benefit from involvement in physical activities; and to make a contribution to the development of a healthy life style. The activities which are included in the course are the following: soccer, flag football, hand ball, volleyball, basketball, floor hockey, square dancing, line dancing, track & field, archery field hockey, and a lifetime sports unit including golf, badminton, racquetball, table tennis, weight lifting, pickle ball, and shuffleboard. The courses requirements necessitate that each student change into appropriate attire, work to their ability, and be cooperative in class.

This course is a yearly requirement in order for students to graduate.

SCIENCE

Students must complete three units of science and pass a Regents exam in order to graduate. Students must pass an additional Regents exam for the Advanced Regents Diploma.

AP Biology:

Prerequisite: Overall average of 85 or higher in Living Environment and Chemistry Regents
Credit: 1 unit (elective)
Length of Course: 1 year with required lab
Grade Level: 11-12
Type of Exam: Local and AP Biology exam (fee required)

AP Biology is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. Students will focus on the conceptual framework, knowledge, and analytical skills necessary to deal with the changing science of biology.

Teacher / Department Chair / Principal approval required to be excused from the AP exam.

AP Chemistry:

Prerequisite: Living Environment (overall grade of 85), and Chemistry (90 overall course grade)
Currently enrolled in or completed Pre-Calculus
Credit: 1 unit (elective)
Length of Course: 1 Year
Grade Level: 11-12
Type of Exam: Local and AP Chemistry exam (fee required)

AP Chemistry is a first year college level course. Students will continue learning in the fundamentals of chemical principles and theories. The course will place an emphasis on chemical calculations and the mathematical formulation of principles through lectures and additional laboratory study.

Teacher / Department Chair / Principal approval required to be excused from the AP exam.

Astronomy:

Prerequisite: Algebra, Earth Science, Living Environment and the Regents exams
Credit: 1 unit (elective)
Length of Course: Full year
Grade Level: 10 – 12
Type of Exam: Local

This course will cover the history of the space program, including beginning rocketry, the U.S. / Russian space race, lunar landings and geology, and the International Space Station. You will study the stars, identification of constellations, planets, comets, and the night sky. Some night work with telescopes will be necessary.

SCIENCE

Chemistry:

Prerequisite:	Algebra and be enrolled in Geometry
Credit:	1 unit
Length of Course:	1 Year with required labs
Grade Level:	10-12
Type of Exam:	Local

This course of study presents a modern view of chemistry suitable for college bound students with a wide range of skills and abilities. The course emphasizes chemical principles such as atomic structure; bonding; chemical kinetics; redox; organic chemistry; nuclear chemistry is covered. The Chemistry Regents exam is required in June.

Earth Science:

Prerequisite:	7 th grade Science
Credit:	1 unit (required)
Length of Course:	1 Year and required labs
Grade Level:	8
Type of Exam:	Regents

The primary emphasis of study will require students to use basic scientific concepts and principles to learn about processes that occur on the Earth as well as in space. This course explores the topics such as; mapping, composition of the Earth surface processes on the Earth, atmosphere and oceans, plate tectonics, geologic time, environmental and the basic study of space. The laboratory section of this course is an important hands-on application of material covered in class and must be completed in order to take the Regents exam.

Forensic Science:

Prerequisite:	Living Environment Regents with 85 or better and Regents Chemistry with a passing grade
Credit:	1 unit
Length of Course:	1 Year (No separate lab period)
Grade Level:	11 – 12
Type of Exam:	Local

Forensic science can technically be defined as the scientific concepts and technical skills used in criminal investigations to prove the existence of a crime; to conclude the identity of the criminal and the means employed to carry out the crime. It demands a close association between scientist and legal representative while keeping the two at a “safe distance”.

In this full year advanced science course, students will:

- study the history of forensic science from it’s onset in prehistoric times to the present
- explore the hundreds of careers that would touch on this science (examples: forensic entomology; microbiology; medicine; anthropology; wildlife management and far beyond into computer forensics);
- explore many of the biological, biochemical, chemical and physical techniques used the field (Regents level Chemistry is will be a prerequisite)
- systemically work through the steps leading from crime scene to the courtroom.

SCIENCE

General Chemistry:

Prerequisite:	A Regents Science Course
Credit:	1 unit
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

The goal of General Chemistry is to enhance science literacy by emphasizing chemistry's impact on society. The course is designed to help the students to realize the important role that chemistry will play in their personal and professional lives; use chemistry knowledge to think through and to make informed decisions about issues involving science and technology; and develop a lifelong awareness of both the potential and the limitations of society and technology.

Honors Chemistry

Prerequisite:	Earth Science and Biology (overall average of 85, 80 on the Biology Regents Exam, enrolled in Geometry)
Credit:	I unit / full year
Length of Course:	1 Year
Grade Level:	10
Type of Exam:	Regents

This course of study presents a modern view of chemistry suitable for college bound students with a wide range of skills and abilities. The course emphasizes chemical principles such as atomic structure; bonding; chemical kinetics; redox; organic chemistry; nuclear chemistry is covered. There will also be some advanced chemistry concepts that you would find in an A.P. Chemistry or freshmen college chemistry class.

Living Environment (Biology):

Credit:	1 unit (required)
Length of Course:	1 Year and required labs
Grade Level:	9-12
Type of Exam:	Local

This is a fast paced survey of living things and their interrelationships. It is intended that it will provide students with an awareness of the natural world, basic scientific concepts, stimulation of inductive reasoning, and a basic understanding of biological processes and generalizations. The Living Environment Regents exam is required in June.

Physics:

Prerequisite:	Algebra and enrolled in Geometry
Credit:	1 Unit
Length of Course:	1 Year (lecture 6/6 days and lab 2/6 days)
Grade Level:	11-12
Type of Exam:	Local

This course of study gives the college bound student a basic understanding of some of the principle rules of physics. It covers five major topic areas: mechanics; energy; waves; electricity; and nuclear physics. This course is specifically designed to give the student general background necessary to go on in careers in science, math, and/or engineering. The Physics Regents exam is required in June.

SCIENCE

Principles of Technology:

Prerequisite:	A Regents Science course and successfully completed Algebra
Credit:	1 unit (elective)
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

This is an applied physics course for those who plan on a career as technicians or who just want to keep pace with advances in technology. The focus will be on important concepts on which all technology is based, including: force; work; rate; resistance; energy and power. Each unit uses a systems concept to explain its application to mechanical, fluid, electrical and thermal systems. Students will acquire a firm foundation for understanding the technology that surrounds them today, and some insights into future technological expectations.

Honors Living Environment (Biology):

Prerequisite:	Overall average of 90 [^] in Science 7 and teacher recommendation or overall average of 85 [^] in Earth Science and teacher recommendation
Credit:	1 Unit
Length of Course:	1 Year and required labs
Grade Level:	9-12
Type of Exam:	Local

This course consists of the study of genetics, probabilities, molecular biology and biochemistry in more depth. Students will participate in an authentic research project that will span over six months. A ten-page paper will be due at the end of the project. The Living Environment Regents exam is required in June.

Engineering the Digital Future:

Prerequisite:	Mathematics through second course in Algebra and one successful regents science course
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	10-12
Type of Exam:	Local

Math and science concepts are applied to new technologies such as: digital music and image, cell phones, I-pods, MP3, and the Internet. Computer chips, binary numbers, matrix operation, computer security, encryption, wireless and networks are a few other topics covered. Basically, how do the new technologies around you work?

Students must complete four years of Social Studies and pass the Global History and Geography Regents and the U.S. History and Government Regents in order to graduate.

Advanced Placement / UHS United States History:

- Prerequisite:** Teacher and department chairperson recommendation
90% or better on the Global Studies Regents and/or the U.S. Government & History Regents exam
- Credit:** 1 unit (required)
College Credit (fee required)
- Length of course:** 1 year
- Grade level:** 11 - 12
- Type of Exam:** Local and AP United States History exam (fee required)

Advanced Placement United States History is an in-depth college level course designed for the student with a special interest and ability in American History and other social science disciplines. It is ideally suited for, although not limited to, the student who plans to major in the social sciences at the college level. It is a full-year University in the High School course in American history from colonial times to present. The course will provide an in-depth examination of American political institutions and behavior, public policy, social and economic change, diplomacy and international relations as well as cultural and intellectual development in American history. Essay writing is essential and emphasized in Advanced Placement History. The students will also be required to analyze historical evidence and primary sources throughout the course of study. Students will take the US History & Government Regents exam in June. **Teacher / Department Chair / Principal approval required to be excused from the AP exam.**

Advanced Placement / UHS Psychology:

- Prerequisite:** U.S. History and Government
Teacher and department chairperson recommendation
Minimum score of 80% on Biology, Comprehensive English, and Global Studies or United States History and Government Examinations.
- Credit:** 1 unit (elective)
College Credit (fee required)
- Length of Course:** 1 Year
- Grade Level:** 12
- Type of Exam:** Local (final project) and AP Psychology Exam (fee required)

This course is designed to study the mind and mental process of humans and other organisms scientifically. Psychological terminology, concepts and theories in the various subfields of psychology will be examined in depth. Topics may include, but are not limited to behavior, cognition, morality, social interaction, development, and treatment history of psychology, sensation and perception, states of consciousness, learning, motivation, personality, abnormal psychology emotion, and treatment (including therapy and pharmacology). This course will combine lecture, recitation, discussion, and directed study, case studies, hands-on experimentation, various activities, and relevant media. As a college level course, AP Psychology will include college-level instruction, vocabulary, expectations, and student responsibility.

Teacher / Department Chair / Principal approval required to be excused from the AP exam.

Advanced Placement / World History:

Prerequisite:	Final average of 90% in Global History and Geography. English and Global History teacher recommendation
Credit:	1 unit (required)
Length of course:	1 year
Grade Level:	10
Type of Exam:	Local, Regents and AP World History (fee required)

The Advanced Placement World History exam will be a yearlong course that will cover the origins of Human civilization from early times to modern day. The exam highlights six overarching Themes: impact of societal interaction, change and continuity across world history periods, impact of technology and demography, social and gender structures, cultural and intellectual developments, and function and structures of states.

Advanced Placement United States Government and Politics:

Prerequisite:	U.S. History and Government 11; teacher recommendation, and the recommendation of the department chairperson; minimum 80% on Comprehensive English and Global Studies and/or United States History and Government Regents Examinations.
Credit:	1 Unit
Length of Course:	1 Year
Grade Level:	12
Type of Exam:	AP Exam, Final Examination or Paper

This course is designed to promote intensive study of the governmental and political systems of the United States. Topics may include, but are not limited to, history of political thought, current governmental issues, background principles of the United States Constitution, the document itself, political labels and inherent problems, separation and division of powers, political beliefs and behaviors, political socialization, political opinion and surveying, voting and political participation, political parties, interests groups, the media, the branches of government and the bureaucracy, how a bill becomes a Law, how the president is elected, the roles and responsibilities of Congress, the President and the Courts, judicial review and various court cases, linkage, public policy, economic policy, military policy, and civil rights and liberties.

Economics:

Prerequisite:	U.S. History and Government
Credit:	½ unit (required)
Length of Course:	½ year
Grade Level:	12
Type of Exam:	Local

This course examines basic economic concepts, including: supply and demand, scarcity, productivity, inflation, profit, interdependence, capital, competition, and the stock market. Topics include the basic principles of economics, the elements of an economic system and its operation, the world economy, and international trade. The purpose of the course is to prepare the student for effective and intelligent participation in the economy of the United States and the global economy.

Global History and Geography I:

Prerequisite:	Social Studies 8
Credit:	1 unit (required)
Length of Course:	1 year
Grade Level:	9
Type of Exam:	Local

Global History I is the first course of a two-year program in Global History and Geography. It is an in-depth chronological examination of the history of the world from the prehistoric period to the Age of Revolution. Global History examines the history, geography, political, social and economic events that have shaped human history.

Global History and Geography II:

Prerequisite:	Global History and Geography I
Credit:	1 unit (required)
Length of Course:	1 year
Grade Level:	10
Type of Exam:	Local and Regents

Global History II is a continuation of the Global History and Geography curriculum. It continues the examination of the history, geography, political, social and economic events of human history from the Age of Revolutions to the present. At the conclusion of Global History II, students are required to pass the Regents examination. This Regents examination is cumulative and taken in June.

Participation in Government:

Prerequisite:	U.S. History and Government
Credit:	½ unit (required)
Length of Course:	½ Year
Grade Level:	12
Type of Exam:	Local

This course emphasizes the interaction between citizens and government at all levels: Local, State, and Federal. Students are encouraged to understand and participate in the democratic process, examine public policy issues, and learn how political decisions are made. Course activities may include: oral and written reports, guest speakers, field trips, internships, and a community service or participation in governmental activities. The purpose of the course is to prepare the student for responsible participation in the American political system.

SOCIAL STUDIES

Psychology:

Credit: ½ unit (elective)

Length of Course: ½ year

Grade Level: 10 – 12 grades

Type of Exam: Local

This course will include an introduction to research methods, major schools of thought, biological basis of behavior, consciousness, perception, learning, memory, motivation, abnormal behavior and stress. Students will learn about social and biological aspects of human behavior as they draw from the course material to gain insight into their life and the lives of those around them.

Sociology:

Credit: ½ unit (elective)

Length of Course: ½ year

Grade Level: 10 – 12 grades

Type of Exam: Local

A systematic introduction to the major sociological concepts for understanding the structure and dynamics of contemporary society. Major topics include an introduction to social methods of inquiry, major schools of thought, culture, social structure, socialization, self and social interaction, groups and social organizations and racial and ethnic relations.

United States History and Government:

Prerequisite: Global History I and Geography II

Credit: 1 unit (required)

Length of Course: 1 year

Grade Level: 11

Type of Exam: Regents and Local

U.S. History and Government are taught chronologically beginning with the colonial period and continuing until the present. Major topics include: the U.S. Constitution, the American geography, economics system, industrial development, the rise of unions, immigrants and their contributions, and U.S. foreign policy. A Regents examination is given at the conclusion of United States History and Government.

TECHNOLOGY

Architectural Drawing:

Prerequisite: Design & Drawing for Production
Credit: ½ Unit
Length of Course: ½ Year
Grade Level: 10, 11, 12
Type of Exam: Local

This course will encourage the solution of technical problems through the use of unconventional approaches. Given a defined supply of materials, students will use many methods and facilities in order to find solutions to the given problems.

Computer Aided Design (CAD):

Prerequisite: Design & Drawing for Production and either Graphic Communication and/or Architectural Drawing
Credit: ½ Unit
Length of Course: ½ Year
Grade Level: 11 - 12
Type of Exam: Local

This course provides an introduction to the various input and output devices and software that Configure computer aided design systems. This course develops an understanding and appreciation of the types, uses, and advantages of the different system components, which comprise a CAD system. Impact of CAD on industry and careers and application of CAD system to design, mechanical drawing, and drafting will be explored.

Design & Drawing for Production:

Prerequisite: None
Credit: ½ Unit
Length of Course: ½ Year
Grade: 9-12

This course emphasizes creative problem solving, designing and technical drawing used to develop solutions

to various design or product problems by exploring two of the six basic areas of technical drawing. The proposed solutions are researched, sketched, refined and rendered as technical drawings.

Energy Systems:

Prerequisite: None
Credit: ½ Unit
Length of Course: ½ Year
Grade Level: 10 - 12
Type of Exam: Local

This is an introductory level course with a focus on energy and power technology. A study of the forms and sources of energy, energy conversion, the laws of thermodynamics, magnetism, solar energy, Pneumatics, hydraulics, energy conscious design, and photovoltaic.

Graphic Communications:

Prerequisite: Design & Drawing for Production
Credit: ½ Unit
Grade Level: 10-12
Length of Course: ½ Year
Type of Exam: Local

Graphic Communications is a second year drafting course that explores the technical types of machine design and mechanical design elements. Area of study include the engineering design process, fastening devices and methods, gears and cams, geometric figures and constructions, and drawing for production and development of intersections.

Materials Processing:

Prerequisite: None
Credit: ½ Unit
Grade Level: 10 - 12
Length of Course: ½ Year
Type of Exam: Local

Materials Processing is designed to offer a generic and broad view of the way humans change materials. The students will see the significance of resources, processes, and impacts of materials used by mankind. Laboratory activities will be provided to reinforce the concepts of materials processing.

Microsoft Certification:

Prerequisite: None
Credit: ½ Unit
Length of Course: ½ Year
Grade Level: 11-12
Type of Exam: Microsoft MOUS

This course will study two of Microsoft's most popular application programs, Word 2000 (word processing) and Excel 2000 (spread sheets). Topics in Word include: formatting, editing, tables, and creation of business letters, memos, Web pages, newsletters, macros, and advanced desktop publishing. Topics for Excel include: creating spread sheets, tracking and updating data, and creating graphs and charts for data collected. The acquisition of proficiency (MOUS) certification will benefit students planning to attend college or those entering the workforce after graduation.

Production Systems:

Prerequisite: None
Credit: ½ Unit
Length of Course: ½ Year
Grade Level: 9-12
Type of Exam: Local

This course studies the systems of manufacturing and construction: their resources, processes, products, and quality assurance, their impact on society, the economy, the environment, and manufacturing.

Technical Drawing:

Prerequisite: None
Credit: ½ Unit
Length of Course: ½ Year
Grade: 9-10
Type of Exam: Local

This course teaches the basic concepts of technical drawing - projection, size description, pictorial representation, and techniques and tools.

Transportation Systems:

Prerequisite: None
Credit: ½ Unit
Length of course: ½ Year
Grade Level 10-12
Type of Exam: Local

This course is an overview of aerospace, land, and marine transportation systems.

Web Page Design:

Prerequisite: None
Credit: ½ Unit
Length of Course: ½ Year
Grade Level: 11-12
Type of Exam: Local

This course will prepare students to create, critique, and maintain academic and commercial Web pages. The course develops an understanding of HTML, creating a document-using HTML, using layers to lay out a page, converting layers to tables, attaching a behavior to an image, importing a Microsoft Word HTML document, formatting text using HTML styles, creating a site map, creating links, applying a template, and creating a jump menu.

COLLEGE CREDIT OPPORTUNITIES

Students may enroll in the following courses and earn college credit after successful completion of the course and appropriate grade on the course specific AP exam:

AP Calculus

AP Chemistry

AP Government

AP Literature & Composition

AP/UHS Psychology

AP/UHS History & Government

AP World History

University in the High School Program through the University at Albany, students are required to pay a minimal fee to the University in order to receive college credits.

UHS Calculus

Spanish IV

University in the High School Program through Schenectady County Community College, students are required to pay a minimal fee to the college in order to receive these college credits.

AP Government

AP Psychology

AP/UHS History & Government

Students in their senior year are also given the opportunity to take courses at local colleges and have the credits also count for their graduation requirements. The colleges will have certain requirements for admission and an application needs to be submitted. Students will need approval from their parents, the principal and the guidance counselor.

Hudson Valley Community College

Sage College of Albany

Schenectady County Community College

SUNY Cobleskill

University at Albany

The Distance Learning Network of local participating school districts. Listed below are previous courses taught through the network:

Bio-ethics

Chinese

Music Theory

Civil War – ½ credit

Holocaust – ½ credit

The New Visions Honors programs are offered through the Capital Region Career & Technical School during the senior year. The application process begins in March of the junior year.

Communications

Health Careers

Human Services & Special Education

Law & Government

CAREER & TECHNICAL PROGRAMS

Career & Technical Education is one of several choices of study available to high school students. The major emphasis is on learning skills that will prepare students for success in today's highly technical world.

The following programs are offered at the Capital Region Career & Technical Schools. Students spend half a day (AM or PM) at one of the centers, the remainder at BKW. Students in many programs continue their studies at the college level and may receive college credit. Students are assigned to the Schoharie campus unless the program of interest is only at the Albany campus.

Albany campus

Auto Body Repair
Automotive Services
AYES Automotive Technician
Botanical Services
Computer Aided Design & Manufacturing
Computer Applications
Computer & Network Technician
Electrical Trades
Fashion Studies
Floral Design
Food Services
HVAC / R (Heating, Ventilation, AC)
Medium / Heavy Duty Truck Repair
International Virtual Business
Lodging Management
Nurse Assistant
Office Operations

Schoharie campus

Automotive Trades Technology
Building Trades Technology
Building & Grounds Maintenance
Cosmetology
Criminal Justice
Culinary Arts & Hospitality Technology
Equipment Operation / Landscaping Services
Health Services
Industrial Heavy Equipment Technology

Visit Capital Region Career & Technical School Web site at www.bocescareertech.org