

Brushton-Moira's

STUDENT COURSE

GUIDE

DEFINITIONS

CREDIT: earned for successfully completing a course of study for time stated.

LOTE: Language Other than English either Spanish or French.

Second Language Proficiency Exam: state test of proficiency in a language other than English usually administered in grade 8.

Prerequisite: courses or standards of achievement which must be completed by a student before beginning the next course.

COURSE SELECTION/DROPS/ADDS

You **MUST** see your counselor if you wish to change levels within a course. This process will typically require teacher and parental approval. Dropping courses is strongly discouraged and, unless there are unique circumstances, will not be permitted.

PROMOTION POLICY

1. Promotion in grades 9 - 12 will be based on the credit system as follows:

- | | |
|-------------------------|--|
| (A) from grade 9 to 10 | Four and a half credits with one credit in English or Social Studies. |
| (B) from grade 10 to 11 | Ten credits with three combined credits in English and Social Studies and must have at least one credit in each. |
| (C) from grade 11 to 12 | Sixteen credits with five combined credits in English and Social Studies and must have at least two credits in each. |

SPECIAL PROGRAMS FOR ADVANCED STUDENTS

Project Challenge - Grades 10, 11, 12. Held on Saturday mornings during the spring semester at Clarkson University. A variety of courses are offered. Including: Biology, Chemistry, Computers, Engineering, Humanities, Psychology and Physics.

Talented Junior Program - Grade 11. Held on Saturday mornings during the fall semester at St. Lawrence University. A variety of courses are offered including: Biology, Semantics Photography, Acting and courses in Sociology and Psychology.

GRADUATION REQUIREMENTS

Subject to change based on New York State Board of Regents Approval

REGENTS DIPLOMA

ADVANCED DESIGNATION REGENTS DIPLOMA

English	4	English	4
Social Studies	4	Social Studies	4
Mathematics**	3	Mathematics**	3
Science**	3	Science**	3
Foreign Language*	1	Foreign Language*	3
The Arts	1	Art/Music	1
Health	.5	Health	.5
Physical Education	2	Physical Education	2
Electives	3.5	Electives	3.5
Total	22.0	Total	22.0

Required Exams Passing score of 65 and above	Required Exams Passing score of 65 and above
Comprehensive English	Comprehensive English
Global History & Geography	Global History & Geography
U.S. History & Government	U.S. History & Government
One (1) Math	Two (2) or Three (3) Math
One (1) Science	Two (2) Science (1 Life, 1 Physical)
	Foreign Language

*Students are required to have completed one credit in a foreign language by the end of their freshman year or pass the NYS Proficiency Exam

**An integrated course in mathematics, science, or technology may be used as the third required credit in mathematics or science

PLEASE NOTE THAT STUDENTS ARE REQUIRED TO TAKE 6 1/2 CREDITS EACH YEAR
PER THE BOARD OF EDUCATION POLICY.

ART AND/OR MUSIC REQUIREMENT

Each student must have at least one credit of Art or Music in order to graduate. Any of the following courses may be taken to meet the one credit requirement in many cases.

Concert Band (1/2 credit per year)

Jazz Band (1/4 credit per year)

Chorus (1/2 credit per year)

Studio in Art (1 credit)

Creative Crafts (1 credit)

*Drawing for Design and Production (1/2 credit)

*This course must be taken before and in addition with one of the following courses Energy, Materials Processing or Technical Drawing.

NOTES OF INTEREST FOR BMCS JUNIORS & THEIR PARENTS

1)Class Rank

-All students who graduate with a N.Y.S. Diploma will be ranked among their classmates according to the numerical average in grades 9 through 12. Students are ranked three times while in high school: (1) at the end of their junior year (six semesters) (2) after the 1st semester, second marking period of the senior year (seven semesters plus third quarter) and (3) at the end of their senior year (8 semesters).

-Valedictorian, Salutatorian, and 3rd honors are determined after the 3rd quarter of the senior year.

-If the averages are within 0.10 points between two students vying for these positions, a tie will be declared and the prefix "co" will be added to the title.

2)College Courses

We offer a variety of college level courses through North Country Community College and St. Lawrence University. These courses are offered during regular school hours and students not only earn high school credits but college credit hours as well. They include:

Literature Appreciation

World Literature

Pre-Calculus

Calculus

Sociology

American Government and Politics

Advanced Environmental Science

Spanish V

French V

-Please be aware that there are fees associated with these courses. See your guidance counselor for more information.

3)Bridging Programs (e.g. The Clarkson School)

Students are eligible for all awards given to the seniors at BMC. Semester grades are averaged into the accumulated average in order to determine class rank. In case letter grades are given by the bridging school, these grades will be converted to numerical averages through a chart furnished by the N.Y.S. Regents.

4)Home Schooling

Credits will be reviewed to determine grade placement. Grades from home-school are not figured into BMC cumulative averages and rankings. Only grades from accredited institutions, which have been approved by the Board of Education, are factored into a student's final cumulative average.

R.O.T.C. AND THE SERVICE ACADEMICS

The Reserve Officer Training Corps and the various Service Academics are extremely popular for the academic students in the United States. Acceptance is very competitive. The Guidance Office has much information in this area, but the following will serve as a quick guideline:

JUNIOR YEAR

- Oct. Take the PSAT
- Nov. — May Determine whether colleges have the R.O.T.C. branch that you are interested in. Read the service Academy catalogs and booklets in the Guidance Office.
- April Register for S.A.T.'s and A.C.T.'s
- May — June Take the S.A.T. and/or A.C.T.
- Write letters requesting appointment to academies (Senators, Congressmen, and Vice-President).
- Send for R.O.T.C. applications
- August 1 Submit your U.S. Army R.O.T.C. Scholarship Application by today.

SENIOR YEAR

- Sept. Continue applying for R.O.T.C. Scholarships.
- Start applying to college(s) you may wish to attend that have R.O.T.C. on their campus.
- Oct. - Nov. Retake SAT/ACT, if appropriate
- Dec. 1 All R.O.T.C. scholarship applications are due.
- Jan. Parents complete FASA.

*Please note some courses may not be offered each school year. Course offerings vary with administrative decisions and are not always known at the time a schedule is made. Be sure to list at least 1st, 2nd and 3rd choices when selecting courses. Although every effort is made to accommodate requests due to scheduling conflicts, teacher course load and class size there is a chance for a student to not get his or her request. Please see your School Counselor if you have any questions.

ART

STUDIO IN ART 1 CREDIT
Prerequisite: None

Studio in Art is a full year foundation course that may be taken by students in grades 8-12 for one high school credit to satisfy the Art/Music requirement for graduation. The student will study the historical, functional, aesthetic, creative, expressive, vocational, and cultural aspects of the visual arts to encourage an understanding and appreciation for visual arts works. Skills and techniques will be taught through studio experiences in the following credits of study: Drawing, Painting, Printmaking, Design, Crafts, Art History, and criticism. This course and Advanced Art II and III are recommended for Art majors who are considering a career and college education in the Visual Arts Field.

ADVANCED ART II AND III 1 CREDIT EACH
Prerequisite: Studio in Art

These courses may be taken by students in grades 9-12 if they have completed Studio in Art and wish to continue the study of art or complete a major in Art. The student will continue to study all aspects of the visual arts with a special emphasis on studio experiences at an advanced level. Studio experiences will include Portrait and Figure drawings, Acrylic and Oil Painting, Design, Silk Screen Printmaking, and Sculpture techniques. Additional credits in Independent Study of Art are an option for students desiring to complete four or five high school credits. These courses are highly recommended for students considering careers in the Arts or students planning college study in the Visual arts.

CREATIVE CRAFTS 1 CREDIT
Prerequisite: None

Creative Crafts is a full year, comprehensive, foundation course that may be taken by students in grades 8-12 to satisfy the Art/Music (1 credit) graduation requirement or to complete a major in Art. Students will study the historical and cultural heritage of various nations of the world specifically through the study of the artwork and crafts of these nations. Students will gain an appreciation and understanding of the artistic contributions made by the crafts people of many different cultures and historical time periods. Studio experiences will include projects in Batik, Ornamental Mask Making, Weaving, Pottery, Macramé, Rug-hooking, Seed Bead Loom Design, and Coiled Basketry as well as other crafts. Studio experiences will be related specifically to the arts and crafts of Indonesia, Africa, Native American Indians, Japan, India, China, Europe, and Ancient Cultures. Through the creation of the above crafts in various materials, the student will be introduced to the fundamentals of two- dimensional and three - dimensional design.

BUSINESS

CAREER AND FINANCIAL MANAGEMENT I & II 1/2 CREDIT EACH **Prerequisite: Successful completion of Grade 9**

This course is an introduction to the world of business and to help prepare you for the economic roles of consumer, worker and citizen. This course will serve as a background for other business courses you may take in high school and in college, assist you with consumer decision-making, prepare you for future employment, and help you effectively perform your responsibilities as a citizen. The course covers small business management and operations, business and government in our global economy, careers, consumerism, finance and economics, credit and risk management and investment strategies.

ACCOUNTING 1 CREDIT **Prerequisite: Successful completion of Grade 9**

This course is designed to develop a student's ability to keep books of a single proprietorship, service and merchandising business, working on both a cash and credit basis. Students should become proficient in learning the job skills of a bookkeeper. Competencies include knowledge of business organization, debit/credit theory, journalizing, use of special journals, posting to the ledger, and financial reports. Job skills and employment areas in the future include: bookkeeper, training for college accounting, payroll clerk, or record keeper.

ADVANCED ACCOUNTING1 CREDIT **Prerequisite: Accounting**

This course starts where Accounting leaves off. This course covers financial statements for both partnerships and corporations. It also includes uncollectible accounts receivable, plant assets and depreciation, inventory and end of fiscal period entries.

BUSINESS LAW 1 CREDIT **Prerequisite: Successful completion of Grade 9**

Business law is a full-year course that can be of great value and relevance to high school students as they take their place in a society that is controlled and highly regulated by complex legal principles and regulations that affect every citizen. All secondary students need an understanding of their legal rights and obligations as they leave school to become law-abiding citizens in our free society.

MANAGING YOUR PERSONAL FINANCES..... 1 CREDIT **Prerequisite: None**

This course focuses on your role as a citizen, student, family member, consumer, and active participant in the business world. You will explore many important areas of interest that will enhance your financial security. You will discover new ways to maximize your earnings potential, develop strategies for managing your resources, explore skills for the wise use of credit and gain insight into the different ways of investing your money. You will also learn about risk management, laws that protect you, and how to get redress when things go wrong with a purchase. Most importantly, you will begin a lifelong journey of

personal financial planning. Some topics discussed include credit, checkbooks, automobiles, marriage and family decisions and insurance. Understanding the concepts presented will enable you to make wise decisions that will help your financial future and make you a better citizen.

CONSUMER ECONOMICS..... 1 CREDIT

Prerequisite: None

This is a course designed to transform students into informed consumers while building career knowledge and developing critical-thinking skills. The global economy holds endless possibilities for financial success and financial pitfalls. Good financial decisions now, such as staying out of credit card debt and investing wisely can give you a good start into your adult life. A thorough coverage of the basics, such as budgeting, credit, insurance, warranties and shopping skills help students become more confident, capable consumers. All secondary students need an understanding of their legal rights and obligations as they leave school to become law-abiding citizens in our free society.

COMPUTERS

INTRODUCTION TO OFFICE 2007..... 1/2 CREDIT

Prerequisite: None

Office 2007 is a skill-oriented, hands-on computer lab course. Students will gain basic concepts and skills as they explore three applications of Microsoft Office 2007 Suite: Microsoft Word, Excel and Power Point. Microsoft Word emphasizes word processing skills, Excel involves spreadsheet and database usage, and Power Point is a visually interesting tool for making presentations. This course is a newer, updated version of Microsoft Office 2002 that was previously taught in the old "Introduction to Computers" class. Students who took the old class are welcome to take this class for additional credit.

ENGLISH

ENGLISH 9..... 1 CREDIT

Prerequisite: English 8

This course consists of four basic parts-listening, reading, writing, and speaking which reflect the NYS standards for ELA. Students will continue to strengthen their use of graphic organizers in writing any style of essay (compare/contrast, creative writing, analysis, etc.) This grade level will introduce the critical lens writing style as well. Literary elements, vocabulary, spelling, etc. will be explored through various genres of literature. Major works include The Odyssey, Romeo and Juliet, and various novels.

HONORS ENGLISH 9..... 1 CREDIT

Prerequisite: An average of 80 or above in English 8

This course is very similar to English 9; however, students will read more intensely and be expected to work more independently. Research skills are emphasized.

ENGLISH 10..... 1 CREDIT

Prerequisite: English 9

This course deals with literature, composition and grammar. The literature portion covers the genres of the novel, short story, poetry, drama, and nonfiction. A strong emphasis is placed on writing and revising. Essays studied and written include critical lens, compare/contrast, analysis, and literary response. Literary elements are a focus throughout all reading. Vocabulary development and word usage are also integral portions of English 10. Preparation for the Comprehensive English Regents that the students will take in their eleventh grade year is a priority.

HONORS ENGLISH 10 1 CREDIT

Prerequisite: An average of 80 or above in English 9

This course is very similar to English 10; however, students will read more intensely and be expected to work more independently. Research skills are emphasized.

ENGLISH 11 1 CREDIT

Prerequisite: English 10

This course is intended to further prepare students for the Comprehensive English Regents. Emphasis is placed on two areas: language arts and literature. The language arts study involves building vocabulary, improving spelling, and increasing listening and composition skills. The literature deals with American authors of all genres.

HONORS ENGLISH 11 1 CREDIT

Prerequisite: At Least an average of 80 in English 10

This course is very similar to English 11; however, students will read more intensely and be expected to work more independently. Research skills are emphasized.

ENGLISH 12 1 CREDIT

Prerequisite: English 11

This course consists primarily of literature study with emphasis on the novel and short story. Composition is dealt with through response to this literature and a major research project. Research skills are emphasized. In addition, students will write resumes and hone their interview skills.

COLLEGE ENGLISH 1 CREDIT

Prerequisite: None

This course through North County Community College offers students six college credits upon completion. Literature Appreciation and World Literature (this title may change per instructor) are the college course titles granted and a fee is required. This course is geared toward refinement of students' skills in both literature and composition to better prepare them for the bulk of reading and writing which will be required in college. Students read English literature from the ancient Anglo-Saxon epic *Beowulf* to Mary Shelley's *Frankenstein*. An integral part of Great Britain's literature is their history, so this is also covered. Exercises related to reading assignments are designed to strengthen reading comprehension and interpretive skills to enable the students to better analyze the finer, more intricate nuances of college level material. The main goal of the composition units is to further upgrade each student's writing style, focusing on clarity, coherence, consistency, and diction. A variety of compositions are assigned, but emphasis is placed on literary analysis and response.

PUBLIC SPEAKING 1/2 CREDIT

Prerequisite: 11th or 12th grade status and an 80 or higher average in English

This course is geared toward students who would like to improve their public speaking and research skills. Students will perform an oral interpretation, take part in various impromptu activities as well as a class movie project, and deliver speeches to inform, persuade, and entertain.

FILM AND FICTION 1/2 CREDIT

Prerequisite: 11th or 12th grade status and college-bound or with an 85 or higher average in English

This is a reading and writing intensive course. It studies the similarities and differences between literature and film. By comparing and contrasting literary works with films, the course highlights the methods and contents of the two media.

PSYCHOLOGY 1/2 CREDIT

Prerequisite: None

Contemporary issues in psychology such as intelligence, development, perception, learning, abnormal behavior, language, and social behavior are explored. Scientific methodology and its application to psychological phenomena are stressed. This introductory course in psychology covers many of the major ideas in contemporary psychology, but focuses mainly on psychology as a science.

THEATER ARTS I 1/2 CREDIT

Prerequisite: None

The Theatre Arts I curriculum is built upon the New York State standards for arts education. These standards include 1) performance 2) tools and techniques 3) critical evaluation and 4) cultural context. Homework for this class will include group performance projects, writing a play review, review for quizzes, and a good deal of rehearsal. Assigned partner work is required. A minimum of two service hours per student is required and may be fulfilled by providing service for any of the visual or performing arts teachers at B.M.C. This course is an introduction to the beginning components of performance such as pantomime, offers and blocking, basic improvisation, movement, and stage combat. The study of the first two periods of theatre history, Classical Greek and Roman theatre and the Italian Renaissance, are covered. Teamwork is strongly emphasized and it is a wonderful class for shy students who would like to become more comfortable speaking in front of others. Very little time is spent doing desk work; getting up and moving around is an everyday occurrence.

THEATER ARTS II 1/2 CREDIT

Prerequisite: Theater Arts I

This course is a continuation of the Theatre Arts I course. More advanced techniques are studied and developed such as monologues, duo scenes, set and costume design, and a culminating final scene that encompasses all skills gained throughout the course. The two history units covered are Elizabethan and Modern theatre. This course requires memorization of lines and a more in-depth analysis of acting, directing, and designing.

SAT/ACT PREP ENGLISH 1/2 CREDIT

Prerequisite: None

This course provides a focused preparation for the SAT and ACT exams through an intense study of vocabulary, reading comprehension passages, correct grammar usage, and written expression. The format for both tests is emphasized and strategies are studied to alleviate test anxiety.

HUMAN MONSTER1/2 CREDIT

Prerequisite: Advanced eleventh and twelfth grade students

This course geared toward advanced eleventh and twelfth grade students. It examines the concept of what behaviors we as a society consider “monstrous” and explores several “monsters” in literature, who ironically, have truly unnatural human counterparts. The course involves intense reading, writing, and in-depth class discussions that revolve around the idea that we as human beings fear what we do not understand, hate what we fear, and how unfortunately, this often times results in us destroying what we hate.

THE NOVEL 1/2 CREDIT

Prerequisite: Advanced eleventh and twelfth grade students

This course is geared towards advanced 11th and 12th grade students. The focus author will be determined by the teacher prior to scheduling. Intense reading of the chosen author’s work is involved as is written analysis on various topics dealing with his/her work. Literary criticism is studied, explored, and applied to said author’s work. This course requires a student who has the ability and ambition to accomplish reading and writing tasks independently, as much of the in-class time is devoted to discussion.

FRENCH

FRENCH II.....1CREDIT

Prerequisite: Student must have a passing grade (65 or higher) on the New York State Proficiency Exam

This course is the link between beginning French and the Regents French course. There is a serious emphasis on the French language and culture. In this course students will review grammar from the two previous years as well as build on vocabulary. Topics covered will include: weather, physical and personality descriptions, vacations, free time and sports along with the past tense and many more irregular verbs.

FRENCH III..... 1 CREDIT

Prerequisite: Successful completion of French II

This course is designed for students to develop and increase the skills and concepts learned in French II. Major grammatical concepts will be learned with a main focus on reading, writing, listening and speaking in French in order to prepare for the New York State Regents Exam. Students should expect to use all of the different tenses and have a greater understanding of the complexity of the French language. Students will revisit previously learned topics which will be covered in more depth. The class will be conducted in French the majority of the time and students are expected to engage in the target language. At the end of the course students will be taking the New York State Comprehensive Regents Exam in French.

FRENCH IV.....1 CREDIT

Prerequisite: Successful completion of French III and a recommended grade of an 80 on

the New York State regents Examination.

This course goes beyond the information learned for the NYS French Regents. It focuses on many different aspects of Francophone Culture, such as the impressionist art movement, literature, and film. There will also be a study of the history of France. There is an added focus on grammar. This course is designed for the serious French student who is interested in learning more about French/Francophone cultures, reading French literature and studying French in depth. There are high expectations set for any student enrolled in the class and a zero tolerance policy when it comes to discipline and academic dishonesty.

COLLEGE FRENCH 201.....1 CREDIT
Prerequisite: Successful completion of French III and a recommended grade of an 80 on the New York State Regents Examination.

This college level course enables students to build their basic French grammatical concepts to more complex oral, written, and reading proficiencies. French and Francophone cultures will be explored through selected readings. Although it is a college course you will not need to pay the fee for this class and you will receive only high school credit with successful completion of the class. This class is taught entirely in French. Students should be aware that this is a college level course and that there are high expectations set for any student enrolled in this class.

HEALTH

HEALTH EDUCATION..... 1/2 CREDIT
Prerequisite: None

High School Health is a required course which builds off the information and skills that were presented in the Middle Level. The major units covered in this class will be: physical activity and nutrition, tobacco, alcohol and other drugs, family life/sexual health, sexual risk, HIV/AIDS, violence prevention, unintentional injury, and other required health areas. There will be a lot of important information presented, but this course is focused on skill development: self-management, relationship management, stress management, communication, planning and goal setting, decision making, and advocacy.

ADVANCED HEALTH.....1/2 CREDIT
Prerequisite: High School Health

An extension of High School Health, Advanced Health gives students an opportunity to personalize assignments in order to reflect and develop plans that will foster positive health habits. In addition, Advanced Health provides a comprehensive overview of the many different opportunities available in the health care field. This course will offer career descriptions and give valuable information regarding educational requirements, salary information and performance expectations within the various health careers. Students will demonstrate the ability to advocate for personal, family and community health by creating health advocate campaigns and will adapt health messages and communication techniques to a specific target audience. This course is ideal for students interested in pursuing a career in the Health field and who want to strengthen the skills that were presented in High School Health.

BUILDING COMMUNITY THROUGH FITNESS AND NUTRITION1/2 CREDIT

Prerequisite: High School Health

This course will allow students to take a closer look at their current physical activity levels and their eating habits. Students will set personal goals in fitness and nutrition and create a plan to meet those goals. The course will end with students incorporating physical activity or nutrition into a community service project. The course will focus on three key areas: participation, improving personal performance in nutrition and fitness, and working towards improving community health.

MATH

PRE-ALGEBRA 1 CREDIT

Prerequisite: 8th Grade Math

Pre-Algebra is an introductory course designed to develop algebra skills. Students will gain a better understanding of solving equations and use this knowledge in order to solve word problems. Students will use basic skills to work with decimals, fractions and percents. This course will prepare students for Algebra and help prepare them for the Regent's examination at the end of Algebra.

INTEGRATED ALGEBRA1 CREDIT

Prerequisite: 8th Grade Math, Or Pre-Algebra

Integrated Algebra is the first course of the advanced regent's diploma sequence or a second unit of credit after a student passes Pre-Algebra. Students will continue to solve equations, systems of equations, and word problems. Students will explore concepts involving the Cartesian plane, functions, measurement, logic, and probability. Students will take a Regent's examination at the end of Algebra and will be prepared to enter Geometry.

BASIC GEOMETRY.....1 CREDIT

Prerequisite: Algebra

Basic Geometry is a one year course designed for students who have passed Algebra but either did not pass the Algebra Regents or are not planning to receive an Advanced Regents' Diploma. Algebra concepts will be reinforced and basic geometry concepts including (but not limited to) graphing on the Cartesian plane and properties of simple polygons will be explored. Students will primarily justify geometric relationships through reasoning and informal proofs. Students will be prepared to enter Geometry, Applied Intermediate Algebra, or Financial Math.

GEOMETRY.....1 CREDIT

Prerequisite: Algebra

Geometry is a one year Math class intended as the second course of the Advanced Regents Diploma after Integrated Algebra. It could also be the third course after a sequence beginning with Pre-Algebra and Algebra. This course is an integrated approach to the study of geometry relating (but not limited) to properties of triangles, quadrilaterals, and circles. Students will justify geometric relationships through reasoning and proof both formally and informally. Students will take a Regents examination at the end of Geometry and will be

prepared to enter Algebra 2 and Trigonometry.

ALGEBRA 2 and TRIGONOMETRY.....1 CREDIT

Prerequisite: Geometry

Algebra 2 and Trigonometry is the third course of the advanced regent's diploma sequence. Students will develop their mathematical reasoning skills. Students will develop their algebraic skills through working with polynomials, rational expressions, radicals, and a variety of functions (quadratic, polynomials, exponential, logarithmic functions, and trigonometric). Students will study trigonometry in depth including the unit circle, radian measure, graphs of trigonometric functions, trigonometric identities, and trigonometric equations. Students also study probability and statistics at a higher level than previous courses. Topics include: Bernoulli experiments, standard deviation, and normal curves. Students exiting from this course will be prepared for a college level pre-calculus class.

SAT PREP MATH.....1/4 CREDIT

Prerequisite: Recommend Junior status or 1st semester seniors

A one semester course designed to help students prepare for the Math Section of the SAT and ACT. Topics include the numbers & operations, Algebra, Geometry, functions & probability.

STATISTICS.....1 CREDIT

Prerequisite: Algebra 2 and Trigonometry or to be taken concurrently with Algebra 2 and Trigonometry.

Statistics is a one year math class in which students will be exposed to four broad conceptual themes: exploring data (describing patterns and departures from patterns) sampling and experimentation (planning and conducting a study), anticipating patterns (exploring random phenomena using probability and simulation) and statistical inference (estimating population parameters and testing hypotheses). Students will be introduced to the major concepts and tools for collecting, analysis, and drawing conclusions from data.

PRE-CALCULUS.....1 CREDIT

Prerequisite: Algebra 2 and Trigonometry

Pre-Calculus is a one-semester class designed for seniors. It is a college-level course that can be taken for college credit through North Country Community College. Students primarily study functions (polynomial, piecewise, rational) and graphing during this course. Students study in depth the nature of graphs and their properties (symmetry, roots, and critical points). They also are introduced to vectors and the polar coordinate system. The final portion of this course deals with sequences and series in a section on discrete mathematics.

CALCULUS.....1 CREDIT

Prerequisite: Pre-Calculus

Calculus is a one-semester class designed seniors. It is a college-level course that can be taken for college credit through North Country Community College. The major emphasis of this course is on limits, derivatives and integrals. Students study algebraic manipulations and use

proofs for more in depth understandings of theorems. Students also solve many problems throughout the semester and are challenged to communicate mathematically.

APPLIED INTERMEDIATE ALGEBRA.....1 CREDIT

Prerequisite: 2 years of high school Math, preferably Geometry

Applied Intermediate Algebra is an elective course designed for students who have completed two years of high school mathematics. Students study advanced algebra topics such as: equations and equalities (linear, absolute value, radical, rational, and quadratic), solving systems of equations (linear, Linear-quadratic, 3-variable) and using matrices, polynomials and rational functions, waves and angular momentum, exponential and logarithmic functions, and trigonometry. Students also work on a variety of projects throughout the year that involve real-world Math and Technology.

MATH and FINANCIAL APPLICATIONS.....1 CREDIT

Prerequisite: None

This course can be taken as an elective or can be used as the third year Math credit in accordance with New York State regulations. This course focuses on Math used in everyday life in both a personal and business level. This course provides many attributes that will aid an individual in their personal lives no matter his or her career goals. The topics covered include income, paychecks, taxes, budgets, mortgages, loans, credit cards, contracts, investing, and the stock market.

MUSIC

CONCERT BAND..... 1/2 CREDIT

Prerequisite: Have successfully completed Junior High Band

The band program is one which gives an opportunity for students to develop and demonstrate their musical talents. The opportunity is offered for students to perform all types of music, public appearances include concerts, and civic and school functions. Band members also try out for all county and all state band membership.

MUSIC THEORY..... 1 CREDIT

Prerequisite: Strong Music Background and Permission of Instructor

A study of the fundamentals of Music including Key Signatures, Reading in both Treble and Bass Clefs, Intervals, Music Dictation, Ear Training, and Major and Minor Keys, Basic Harmony, etc. This course is designed for students who wish to pursue a career in music education or classical music performance.

CHORUS (Middle Level and Senior High)..... 1/2 CREDIT

Prerequisite: Previous experience and/or permission of instructor

The chorus program gives students an opportunity to develop vocal and musical skills, including vocal production, basic reading, part-singing, rehearsal, and performance. This group meets on alternate school days, either two or three periods each week. All chorus students participate in two concerts each year. Students may also try out for county, regional, and statewide choral groups.

JAZZ BAND..... 1/4 CREDIT

Prerequisite: Permission of Instructor and a member of Concert band

This group rehearses two —three times weekly before the regular school day begins. They perform rock, pop, and jazz standards and are featured in two concerts each year. Jazz band music is generally intended to be performed by only one person per part and the music is scored for rhythm section saxophones, trumpets and trombones only.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 1/2 CREDIT

Prerequisite: None

Each student meets for the equivalent of 2 1/2 class periods per week. The objectives of the program are: physical fitness, skills, safety practices, expression and communication, individual and group understanding, knowledge and appreciation of activities, effects of physical activity, initiative, leadership and responsibility, personal, fitness/ wellness, personal living skills, and maintaining a portfolio.

SCIENCE

EARTH SCIENCE 1 CREDIT

Prerequisite: 8th Grade Science

This course includes a required 1200 minutes of lab work in preparation for a Regents lab performance test prior to a written Regents Examination in June. Earth Science encompasses topics related to our planet's inorganic materials, water, atmosphere, systems and processes, history, and its place in the Universe. In addition to preparation for the Regents, students will gain an appreciation of Scientific Investigation and the interdisciplinary nature of Science.

LIVING ENVIRONMENT1 CREDIT

Prerequisite: Earth Science or Permission of Instructor

Living Environment is a comprehensive, two-semester, introductory biology course that includes a laboratory component. The course is designed to prepare students for the Living Environment Regents Exam. To be eligible to take the Living Environment Regents exam, a student must complete all laboratory activities to the satisfaction of their teacher, with a complete set of each student's finished labs kept on file, as mandated by the State Board of Regents.

ADVANCED ENVIRONMENTAL SCIENCE1CREDIT

Prerequisite: Students must have successfully completed NYS Regents Earth Science, NYS Regents Biology, and have successfully completed—or be concurrently enrolled in NYS Regents Chemistry

This is a course through SUNY college of Environmental Science and Forestry. Students will explore environmental change at the local and global levels. In this course you will learn about the complex issues facing our environment, and the impact humans have on the environment. The goals of this course are to give students a solid understanding of science and a sense of wonder and appreciation for the Earth as a system.

RESEARCH PROJECT SCIENCE1 CREDIT

Prerequisite: Written recommendation of previous Science and English teachers

This course will involve independent, in-depth research. A variety of interdisciplinary topics can be explored, such as Astronomy, Global Climate, Alternative Energy Archeology, Anthropology, Paleontology, Oceanography, Water and Air Quality, and more. Students will assemble a portfolio and produce a research paper based on a protracted project of their choice. The course will be reading and writing intensive.

ECOLOGY.....1 CREDIT

Prerequisite: 7th and 8th Grade Science

This general course of environmental study reviews how humans interact with the environment. It includes many basic concepts from Living Environment, Chemistry, Earth Science, and Physical Science. The major topics of discussion are Ecosystems, Food and People, Energy, Environmental Pollution, Biodiversity, and Sustainability. The purpose of this course is to learn more about the complex issues facing our environment like global warming and resource depletion. Student will be able to explore a variety of environmental problems and solutions, and then draw their own conclusions.

FORENSIC SCIENCE.....1 CREDIT

Prerequisite:

Students will be taught the fundamentals of forensic science with a focus upon the application of scientific methods. They will learn by doing; they will process crime scenes, analyze lab data, conduct scientific investigations, interact with guest speakers, explore current science literature and become familiar with various texts. Students will use technology to participate in activities that resemble those used by forensic scientists. They will document and communicate their findings through laboratory reports, presentations and computer software.

CHEMISTRY.....1 CREDIT

Prerequisite: Algebra, Geometry, Earth Science and/or Living Environment

This course of study presents a modern view of chemistry suitable for the student with a wide range of skills and abilities. The topics introduced provide the unifying principles of chemistry. Many of these principles are basic to understanding the environment in which we live. The student will study both the technological impact of chemistry as well as the application of chemical principles in our daily lives. The course requires a high level of effort and there is a *mandated* laboratory requirement for the year. The basic units of study are Matter and Energy, Atomic Structure, Bonding, Periodic Table, Mathematics of Chemistry, Kinetics and Equilibrium, Acids and Bases, Redox and Electrochemistry, and Organic Chemistry. Completion of at least 30 laboratory sessions with accompanying written reports is required to be admitted to the regents examination and to receive credit for the course.

PHYSICS.....1 CREDIT

Prerequisite: Successful completion of the following courses and the Regents Examinations Algebra, Geometry, Earth Science, Living Environment

The conservation of matter and energy are the unifying principles of this course. The basic core of the course consists of topics in mechanics, energy, electricity and magnetism, wave phenomena, and modern physics. The optional expanded areas include motion in a plane, internal energy, electromagnetic devices, geometrical optics, solid state physics, and nuclear energy. There is a mandated laboratory requirement and is required for completion of the

course as well as admittance to the Regents examination. Completion of at least 30 laboratory sessions with accompanying written reports is required to be admitted to the regents examination and to receive credit for the course.

SOCIAL STUDIES

GLOBAL HISTORY & GEOGRAPHY 9.....1 CREDIT

Prerequisite: 8th Grade Social Studies

This unit of study includes many areas of the world that are vastly different from our own culture. The major areas of study include: Southern Africa, China, Sub-continent of India, Pakistan and Bangladesh, Southeast Asia, Japan, and Latin America. The course delves into the inceptions of the histories of each area along with subsequent growth and development. There is an effort to relate the histories of each area studied to our world and nation of today. The problems of the Middle East have involved America at times as well as the competition we now face from Japan. These concepts are woven into the course to add relevance to today's student. The area of Latin America has been included recently as feature of the new Regents Action Plan for New York State. This course is the first year of a new two year course entitled "Global Studies."

GLOBAL HISTORY & GEOGRAPHY 10.....1 CREDIT

Prerequisite: Global Studies 9

Global Studies is divided into four units. The introductory unit (taught in Global Studies 9) establishes a framework for the course. This initial unit is followed by units on the Middle East, Western Europe, The Soviet Union and Eastern Europe, and The World Today. Selected nations and peoples within the regions encompassed are studied in thematic fashion.

CREDITED STATES HISTORY & GOVERNMENT.....1 CREDIT

Prerequisite: Global Studies

United States history is the history of a great experiment in representative democracy. The basic principles and core values expressed in the Declaration of Independence became the guiding ideas for our nation's civic culture. United States history since the Declaration of Independence has witnessed continued efforts to apply these principles and values to all people. Adoption of the United States Constitution codified these principles, but, as the history of our nation shows, that document and its amendments represented only the first step in achieving "liberty and justice for all." One major goal of the State Social Studies curriculum, K-11, calls for students to learn about the structure and function of governments and to learn how to take on their roles as citizens. Students should understand those basic principles and the cultural heritage that support our democracy so that they can become informed, committed participants in our democracy. This core curriculum lists examples that describe how individuals and groups throughout history have challenged and influenced public policy and constitutional change. These examples and this course of study should help students understand how ordinary citizens and groups of people interacted with lawmakers and policy makers and made a difference.

PARTICIPATION IN GOVERNMENT.....1/2 CREDIT

Prerequisite: Grade 12 or Permission of Instructor

MAJOR GOALS: In this required course, the students will demonstrate:

1. Knowledge of how public policy is formed, implemented and evaluated at all levels of government in a democratic society.
2. Knowledge of how citizens can directly or indirectly interact with the public policy process.

SOME OBJECTIVES:

1. To create opportunities for students to refine and develop skills necessary for participating in a democratic society.
2. To make students aware of the role of the citizen in the decision making process.
3. To encourage students to accept responsibility for their role as citizen.
4. To provide students with an understanding of how public policy decisions are made.
5. To enable students to make informed judgments concerning public policy issues.

Defining, analyzing, monitoring and discussing issues and policies is the fundamental participatory activity in a democracy.

REQUIREMENTS: 20 hours of community service, and attendance at a Board of Education meeting.

ECONOMICS.....1/2 CREDIT

Prerequisite: Grade 12 or Permission of Instructor

Economics is no longer the "dismal science." It is an essential set of reasoning and decision-making skills for surviving, let alone thriving, in a changing, competitive global economy. As we confront the issues of the increasing number of personal bankruptcies, uncontrolled credit card debt, ignorance of the value of savings and investing, and the inability of many of our students and their families to grasp the repercussions of the need for increasing economic literacy in our young adults and for enhancing economic education in our nation's schools.

ETHICS.....1/2 CREDIT

Prerequisite: Completion of Global 10, Must be a Junior or Senior, Permission of Instructor

Our lives are filled with ethical issues and dilemmas, both personal and social. This course provides an opportunity to reflect on these issues and to increase one's capacity to analyze them more critically. It does so by considering first some basic perspectives about ethics, and ethical theories. Secondly, it will examine a variety of ethical issues in a somewhat detailed manner. Finally it provides students opportunities to focus on an ethical issue of their own choosing, and with two other students make a class presentation on this issue. The objectives of the course are: to demonstrate the nature and importance of ethical theories, to provide the student with mechanisms for analyzing contemporary ethical issues, and to increase general skills in formulating and evaluating ethical arguments.

HONORS GLOBAL HISTORY & GEOGRAPHY 10.....1 CREDIT

Prerequisite: Must be a sophomore and at least an 80 in Global History and Geography 9

This is the second year of a two year history course. This course is designed to provide a general overview of world history from the beginning of human civilizations to the rise of the modern world, The course explores the differing cultural/ historical backgrounds of various geographical areas of the world. The content is extensive and the work load is rigorous. One of the most important goals of the course is to provide students with the skills necessary to read and understand a wide range of materials including the text, primary source documents, Internet sources, and historical fiction. In order to achieve this goal, students will be held strictly accountable for the completion of all reading assignments.

INTRODUCTION TO SOCIOLOGY.....1 CREDIT

Prerequisite: Must be a Junior or Senior

Sociology is the objective study of how people interact with one another and how social institutions affect the members of society. We will study all social groups. This course will have an abundance of reading assignments for daily participation as well as projects. Successful completion of this course along with mandatory college fees-is equivalent to 3 credit hours via NCCC.

AMERICAN GOVERNMENT AND POLITICS.....1 CREDIT

Prerequisite: Must be a Junior or Senior

A study of the political development, structure, government processes political parties of the United States. This course will have an abundance of assigned readings for daily participation, projects, presentations, and a required class community service project. Successful completion of this course along with mandatory college fees- is equivalent to 3 credit hours via NCCC.

SPANISH

SPANISH I.....1 CREDIT

Prerequisite: Must be a high school student

This course is for high school students still needing to fulfill their one credit of foreign language necessary to graduate. This course is for students that have not taken Spanish before or have failed the 8th grade proficiency exam. This class covers material from Spanish 7 and Spanish 8. At completion of the class students will have earned one high school credit of LOTE.

SPANISH II.....1 CREDIT

Prerequisite: Successful completion of either Spanish I or a passing grade on the New York State Proficiency exam

This course is the link between beginning Spanish and the Regents Spanish course. There is an emphasis on a greater understanding of the Spanish language and culture. Topics covered include: weather, physical and personality descriptions, acquiring a hotel room or an apartment, furniture, daily routines, vacations, health and pharmacy, free time and sports. Students learn many new verb forms as well as develop a greater mastery of the language. Students will be asked to write, as well as read, many different types of works in Spanish.

SPANISH III.....1 CREDIT

Prerequisite: Successful completion of Spanish II

This course focuses mainly on the reading, writing and speaking of Spanish in order to prepare students for the New York State Regents Exam. Students learn new, more complex grammar structures, as well as add on to their knowledge of the Spanish vocabulary. Students will be able to use all of the different tenses and have a greater understanding of the complexity of the Spanish language. Many previous topics are visited in more depth. Topics covered include: clothing and shopping, restaurant etiquette and vocabulary, travel, art, literature and music. Students will be asked to write essays, write and perform dialogues and skits, as well as read and comprehend many different types of literature. At the end of the

course the students will be taking the New York State Comprehensive Regents Exam in Spanish.

COLLEGE SPANISH 102.....1 CREDIT

Prerequisite: Students who have passed Spanish III and with a recommended grade of an 80 on the New York State Spanish Regents Exam.

This course is offered through North Country Community College for a fee, and the students will receive three college credits upon successful completion. This course goes beyond the information that was learned for the New York State Regents exam. It focuses on many different aspects of Hispanic culture such as art, music, and literature. There is an added focus on complex grammar skills and writing. This course is designed for the serious Spanish student who is interested in learning more about Spain and other Hispanic cultures, reading Hispanic literature and studying Spanish in depth. There are high expectations set for any student enrolled in the class and a zero tolerance policy when it comes to discipline and academic dishonesty.

COLLEGE SPANISH 201.....1 CREDIT

Prerequisite: Successful completion of Spanish IV with a recommended overall average of an 85.

Spanish 201 is a college level course offered through St. Lawrence University for a fee. Upon successful completion of the course students will earn 3.75 college credits. There is an emphasis on reading, writing, and speaking in Spanish. The class is conducted entirely in Spanish. Students should be aware that this is a college level course and that there are high expectations set for any student enrolled in the class and zero tolerance policy when it comes to discipline and academic dishonesty. Teacher, school counselor, and principal permission are necessary for students to enroll in SLU Spanish.

TECHNOLOGY

TECHNICAL DRAWING 1/2 CREDIT

Prerequisite : None

Technical Drawing is a one semester, ¹/₂ credit course. The main focus of this course is to introduce you to the methods that industry uses to present designs. In an industrial setting, products are rarely made by the people that design them. "Technical Drawings" are the means used to communicate the information necessary to build products. Over the years, Technical Drawing has evolved into a very structured system. This means that there are practices, methods, standards and conventions that are used worldwide. **The main topics include Orthographic Projection, Auxiliary Views, Sectional Views, Isometric Drawing and Surface Developments.** Grades are based on completed drawings.

COMPUTER AIDED DESIGN 1/2 CREDIT

Prerequisite : None

Computer Aided Design (CAD) is a one semester, ¹/₂ credit course. To design a future product, working drawings or computer models are prepared. Computer Aided Design involves creating the plans and drawings for products with a CAD program. A Computer Aided Design program is Technology's (or Engineering's) equivalent to a word processing program in an English setting. Words alone cannot tell how to make a product. For most

modern day products (buildings, automobiles, etc.), the drawings are very complex and the process of making them is equally complex. This design process and the standards associated with it, is a "language" of its own. This class teaches the basics of the design process and how to use a professional level CAD program (KeyCreator). Grades are based on completed drawings.

ARCHITECTURAL DRAWING1/2 CREDIT
Prerequisite : None

Architectural Drawing is a one semester, 1/2 credit course that is an introduction to the methods used in residential design and construction. The areas covered are drafting room practice, residential design practices, techniques/terminology used in light construction, developing/reading working drawings, perspective drawings and estimating costs. Architectural Drawing is a class that is useful to students that have a future in the building trades (carpentry, masonry, electrical, etc.), engineering and design, and even those that will own and maintain a home. Grades are based on completed drawings.

PHOTOGRAPHY I.....1/2 CREDIT
Prerequisite : None

Photography is a one semester, 1/2 credit course. The intent of this course is to teach you the basics of "silver based" photography. This involves four main areas; the use of a single lens reflex camera, developing and printing black and white photographs, exposing and processing color transparencies (slides), and mat cutting basic digital photography. The format of the course closely resembles "independent study", meaning that all grades are "project" based and after the necessary demonstrations, class time is spent working in the lab environment. The "camera work" is done outside of school. There are school owned cameras to borrow on a limited basis for students that do not have a single lens reflex camera of their own.

PHOTOGRAPHY II.....1/2 CREDIT
Prerequisite: Photography I

Photography II is a one semester extension of Photography I. Manual SLR, digital, and pinhole cameras are used along with traditional processing techniques and Photoshop®. Grades are based on advanced assignments in both traditional and digital photography.

PRODUCTIONS SYSTEMS.....1/2 CREDIT
Prerequisite: None

Production Systems is a one semester, 1/2 credit course. The focus is on the two major methods of production used in our society. These are "manufacturing" (the production of goods in a factory setting) and "construction" (the process of building products on site). Of the three areas in Technology (i.e. Transportation, Communication, Production) manufacturing and construction are directly responsible for making the products that surround you. The ways of producing or building products is limitless and constantly changing: this course is an introduction to machine shop practice, sheet metal fabrication, welding, blacksmithing, foundry and oxy-acetylene processes. Grades are based on projects built in the shop.

DESIGN AND DRAWING FOR PRODUCTION (DDP).....1/2 CREDIT

Prerequisite: None

Design and Drawing for Production (DDP) is a 1/2 credit course dealing with the process of designing and building products. Emphasis is placed on the planning and design of projects of the student's choosing. Grades are based on the design and building of projects in a variety of areas (foundry, sheet metal, machine shop, welding/fabrication).

PRODUCT DESIGN AND ENGINEERING.....1/2 CREDIT

Prerequisite: None

Product Design and Engineering is a 1/2 credit course recognizing the changes that have occurred in the way products are manufactured. Hands-on activities in the development, production and evaluation of manufactured goods will emphasize a team approach to manufacturing. Conventional and computer-aided manufacturing processes are explored with quality control and statistical analysis of manufacturing defects included. Grades are based on products manufactured in the metals shop.

FORESTRY.....1/2 CREDIT

Prerequisite: FFA member or permission of instructor

Students will become familiar with the safety and proper use of forestry equipment. This course focuses on the application of forestry management principles in the school land lab. Students will work with tractors; go through a tractor safety course, tree identification, Christmas tree and sugar bush management. Students will do trail management, along with pond restoration and maintenance. Students need to participate in all Future Farmers of America activities. F.F.A. provides a portion of funds for this program.

APPLIED AGRICULTURE.....1/2 CREDIT

Prerequisite: FFA member or permission of instructor

Doing to learn is the purpose of this course! As a primarily hands on course in agriculture, class projects will include: Maple sugaring, forest conservation, tractor safety, Christmas tree management, and greenhouse management. Students will be able to take skills learned in this course and apply them to future goals.

AGRICULTURAL ENGINEERING.....1/2 CREDIT

Prerequisite: None

This course offers a basic understanding of skills needed by today's agricultural engineers and mechanics. Students will learn basic skill in welding, small engines, plant science and agriculture equipment maintenance and design. Students utilize skill through hands on application where they design and build projects, fix machinery, and learn safe machine shop management.

MATERIAL PROCESSING.....1/2 CREDIT

Prerequisite: None

The focus of the course is the ability to work with an abundance of materials. The class will work with metal, wood, plastics, and some ceramics. The class will concentrate on the many processes. They will perform separating, forming, combining, and conditioning. They will also

produce detailed step by step procedures for each project.

MANUFACTURING SYSTEMS.....1/2 CREDIT

Prerequisite: None

The students will set the class up as a small business. They will select a product, design, prototype, survey, mass produce, sell, profit, and feedback. Students will examine the types of manufacturing used. They will be responsible for jigs and fixtures to make replica parts for their projects. They will work with plastic, metals, and woods. Their goal is to make enough money to cover the cost of all projects so they may have one for free. Basic Math and Business will be incorporated.

ENERGY 1/2 CREDIT

Prerequisite: None

This course deals with the many types of renewable and nonrenewable resources. Class projects will focus on harnessing the energy of renewable resources and turning the energy into work. Students will use Physics formulas and apply them to projects showing how power, velocity, acceleration, potential energy, torque, and much more are found. Students will work in a greenhouse where they will set up a hydroponics system. They will also construct and test maglev, wind turbines, solar cookers, solar homes, and solar dehydrators.

LAND TRANSPORTATION SYSTEMS.....1/2 CREDIT

Prerequisite: None

This course deals with modes of transportation. Students will take an in depth look at small engine repair. Students are responsible for a small engine. They will disassemble it to see the parts and functions of a two or four stroke motor. They will also deal with projects that will give the hands on approach to find the potential energy, velocity, acceleration, mass vs. distance relationships, and design of vehicles. Other projects vary on class dynamics and size.

TRANSPORTATION SYSTEMS.....1/2 CREDIT

Prerequisite: None

Course covers the different modes of transportation. Students will make many systems involving transportation. Some projects will include model dragsters, airplanes, boats, and a large project. The large project will involve a design process, fabrication, and testing.

CONSTRUCTION SYSTEMS 1/2 CREDIT

Prerequisite: None

Course deals with all aspects of constructions. Class will cover foundation, wall structures, rafters, sheathing, electricity, framing, and other key components. Students will construct some sort of structure. They will be able to take topics covered and apply with real hands on approach with a finished structure. Students will also complete a small plumbing and electrical credit to touch base. Students will calculate board footage, cubic yards, number of studs in a wall and produce a materials list. Students will also draw to scale and construct a model building.

LANDSCAPE DESIGN I 1/2 CREDIT

Prerequisite: None

This course offers students an overview of this growing industry, providing instruction and activities in landscape designs, installation, and management. Students will have the opportunity to create their own landscape designs, construct new landscape and provide seasonal maintenance on existing landscape on the school grounds.

LANDSCAPE DESIGN II..... 1/2 CREDIT

Prerequisite: Landscape Design I

This course incorporates greenhouse care, maintenance and aquaculture introduction. Students learn about pond construction, setup, maintenance, and wildlife attractants. Students will work on the school pond. They will take care of brush and viewing areas. Students will also take care of fish stalking and learn about aquatic species.

WOOD WORKING1/2 CREDIT

Prerequisite: None

Students will take an in-depth look at wood joinery. They will focus on the art form of using hand tools to create their projects. The first quarter will focus on the different types of joinery and how they are created by hand tools. Joints such as dado, gain, box & finger, rabbet, scarf, dovetail and many more will be created the second half of the course and will deal with applying the use of hand tools and joinery to projects. Students will start by completing easy shelves to more complicated end stands.

ADVANCED WOODWORKING1/2 CREDIT

Prerequisite: Woodworking

Students will learn the machines of the shop. Taking the basic knowledge of joinery in wood working students will be able to create these joints with tools. Students will have in-depth training on machines and their capabilities, along with safety issues and precautions. Students will create multiple projects requiring radial alarm saw, table saw, Kreg Jigs, routers, drill press, lathe and band saws.

INDEPENDENT WOODWORKING.....1/2 CREDIT

Prerequisite: Permission of Instructor, senior status, Woodworking, Advanced Woodworking, Materials Processing

This course is designed for the serious student with a desire to make projects with knowledge gained from the above courses. Projects will be selected with instructor approval, must be of high quality and challenging.

ADVANCED APPLIED AGRICULTURE1/2 CREDIT

Prerequisite: Permission of Instructor, Applied Agriculture

Doing to learn is the purpose of this course! As a primarily hands on course in agriculture, class projects will include: Maple sugaring, forest conservation, tractor safety, Christmas tree management, and greenhouse management. This course is intended for students that have been in F.F.A for four years, and excelled in Applied Agriculture. Students can use this course for their SAE "Supervised Agriculture Experience".

NORTH FRANKLIN EDUCATIONAL CENTER

CAREER AND TECHNICAL EDUCATION

AUTO TECHNOLOGY with Auto Body 4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

Auto Technology is a two year training program that prepares the student for an entry-level position in the field of automotive repair or continuing education at a technical college. The student will develop a broad understanding of the scientific principles of the various systems used in the automobile and light truck. Training is in the areas of diagnosis, repair and preventative maintenance. Our fleet of training vehicles provides the student with hands-on applications of skills in all technical areas ranging from basic safety and maintenance to computer control systems. The class also operates a service clinic for the real world of work performances and students participate in a work-study program with area automotive business. The units of study include intro to automotive trades, preventative maintenance/safety, front/rear suspension, engine theory/troubleshooting/basic repair, basic automotive electricity, emission controls, theory/repair fuel systems, theory/repair cooling and lubrication systems, basic brake systems, power and specialized tools equipment, NYS auto inspections, basic auto body skills and vehicle prep.

BUILDING TRADES4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

Students enrolled in Building Trades will gain an understanding of the basic theories of carpentry, using the tools and equipment of the trade. They will then apply these theories to lab projects and the building of a home during their two years of study. The units of study include introduction to carpentry, safety, rough framing, interior/exterior trim and finish, building materials, roofing/siding/flooring, basic electricity/plumbing and masonry, window/door installation, cabinet making, and blueprint reading and estimating materials.

CHILD DEVELOPMENT.....4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

This two year course will provide the student with a knowledge base and practical experience in child development for an application to his/her present role as a family member, a future parent, and particularly in a career. The student will explore how to help all children, prenatal through school-age, establish optimal physical, emotional, social and cognitive foundations. The units of study include human development, child development, children's literature, positive guidance, early childhood education programs, health and safety, and cultural diversity.

COSMETOLOGY.....4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

Cosmetology is a two-year program which offers instruction and practical experience in the skills and theory necessary to be a licensed cosmetologist. This includes care of hair, skin, nails and all related services offered in a beauty salon. Equipment used in the cosmetology laboratory is equivalent to that found in a modern shop. Students must fulfill the requirement of one thousand instructional hours. The successful completion of the program qualifies the students to take the New York State Cosmetology Licensing Exam. The units of study include life skills, our professional image, communicating for success, anatomy and physiology, properties of the hair and scalp, principles of hair design, shampooing, rinsing and conditioning, hair cutting, styling, and coloring, braiding and braid extensions, chemical texture services, hair removal and facial services, nail structure and growth, manicuring and pedicuring, and the salon business.

CULINARY ARTS.....4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

Culinary Arts is a two year program of training in food preparation and service with "hands-on" experiences and related theory. Quantity commercial cooking, gourmet cooking and short order cooking are emphasized. The intent of the program is to give students an understanding of food preparation as well as to develop skills in food management, nutrition, food science and business practices. The units of study include professional food service procedures, banquet and commercial foods, quantity food management, food safety, management, entrepreneurship, quantity baking, and nutrition.

ELECTRICAL TRADES.....4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

The Electrical Trades two year program provides classroom instruction and on-site activities in the installation, troubleshooting and repair of residential and commercial electrical wiring systems. Training is given in the installation and maintenance of motors, generators and control equipment used in homes, offices, stores and factories. The units of study include basic theory of electricity, safety, wiring, motors and generators, alarm systems, job estimating, electrical codes, and schematic and blueprint reading.

HEALTH OCCUPATIONS.....4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

The goal of this two year program is to acquaint the high school student with a true

picture of the health occupations that are available. Basic entry-level skills are taught for a variety of health occupations. The student will be objectively introduced via classroom instruction and clinical, supervised experience. The units of study include learning about healthcare team functions and educational requirements, job skills common to healthcare, human body structure and functions, personality development with related theories, basic nutrition, basic observational and communication skills, and personal resource management.

HEAVY EQUIPMENT.....4 CREDITS

Prerequisite: 11th Grade Status, Successful Completion of the following courses: English 9 & 10, Social Studies 9 & 10, Two Years of Math, Earth Science, and Living Environment

The Heavy Equipment Repair and Operation two year program emphasizes the operation of the bulldozer, backhoe, dump truck, grader and front-end loader. The program includes theory and "hands-on" experience in these areas as well as welding and preventative maintenance of the equipment. Students will be given the chance to qualify for registry with

the National Center for Construction Education and Research. The units of study include operation of heavy equipment, safety, welding, hydraulic systems, basic engine repair, power train, diesel and gas fuel systems, vehicle electricity, and shop management.

NEW VISIONS

HEALTHCARE.....4 CREDITS

Prerequisite: 12th Grade student, Completed 3 years of Science and Math, Guidance Director Recommendation, demonstration of above average written and verbal skills, ability to work independently and in teams, and must be college bound

In today's fast-paced healthcare industry there are many highly skilled and specialized positions. The new Vision program lets students experience many of these hands on. The North Franklin educational Center through New Vision one year course offers high school seniors the opportunity to have on-site hospital experience at the Alice Hyde Medical Center in Malone. This experience will help students make important career decisions about healthcare positions, assisting them as they pursue their college education. There will be hands on experiences in the following areas: administration, audiology, cancer center, cardiac rehab, cardio-pulmonary services, data processing, dialysis, dietary, emergency room, infection control, ICU, lab, maternity, nursing services, operating room, patient representative office, pediatrics, pharmacy, physical therapy, social services, VA clinic, volunteer office, and X-Ray department.

LAW AND GOVERNMENT.....4 CREDITS

Prerequisite: 12th Grade student, Completed 3 years of Science and Math, Guidance Director Recommendation, demonstration of above average written and verbal skills, ability to work independently and in teams, and must be college bound

The New Vision program lets students experience many different aspects of the legal system hands on. The North Franklin Educational Center through the New Vision one year course offers high school seniors the opportunity to have experiential rotations with court officials, lawyers, Homeland Security and law enforcement. This experience will help students make important decisions when pursuing their college education.

PUBLIC NOTICE

All activities, services, education programs and employment practices at Brushton-Moira Central School are nondiscriminatory as required by Title VI, Title IX, and Section 504. Students, parents, employees and the general public are offered employment and educational opportunities without regard to one's sex, race, color, national origin or handicapping condition. Additionally, handicapped students and employees may qualify for special services or instruction and equipment modifications, and students with limited English language skills will not be denied participation in any activity program. Complaints or questions concerning discriminatory treatment may be directed to Middle Level Principal/CSE Chair of High School Principal at BRUSHTON-MOIRA CENTRAL SCHOOL, BRUSHTON, NY 12916.