

Fort Ann Central School

Course Description Guide 2006-2007



*A publication of the FACS Guidance Office
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The inclusion of a course in this guide in no way implies or guarantees that it will be offered in the following school year, nor does it imply or guarantee that it will be offered in exactly the same format as is written. This document serves only as a guide to provide a framework for possible classes to be offered in any given year.

ENGLISH CORE

English 9

1 credit

This required course emphasizes basic units in Literature. Novels, plays, poetry, and short stories accompany literature texts in the classroom. In addition, basic units of grammar, usage, and composition are covered. Vocabulary is also studied. Listening and speaking skills are an integral part of the curriculum. Students are also responsible for outside reading.

English 10

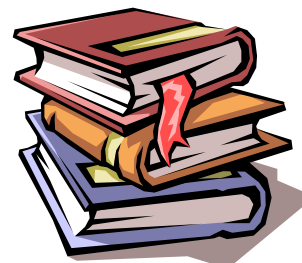
1 credit

This required course builds on or emphasizes skills learned in English 9. Students will once again be exposed to Shakespearean drama through Julius Caesar or Macbeth. They will also be exposed to different writing techniques used by various authors and poets, and to the basic fundamental elements of research. This course introduces the elements that make up the 11th grade Regents. Students will also be responsible for outside reading.

English 11

1 credit

This course deals with perfecting skills that have been stressed in previous courses of English: Writing, vocabulary, reading and listening. Enhancing these skills will prepare the students for the Regents Exam. Lengthy compositions and the research paper are requirements of the course. Literature is a study of American and English authors and poets.



English 12

1 credit

Seniors work at polishing any rough edges in their English background in order to greet the "real" world confidently. Students will enhance their public speaking skills by giving a total of four speeches - one each semester. They will work on perfecting their skills in researching and writing. Literature is a study of worldwide authors - contemporary works and the classics - that will further strengthen the students' academic progress.

ENGLISH ELECTIVES

(Open to students in grades 10-12)

Native American Culture through Film and Literature $\frac{1}{2}$ credit
Students will explore Native American Culture through film and also the literature of authors such as Leslie Marmon Silko, Dee Brown, Gary Snyder, and N. Scott Momaday.

The Vietnam War through Film and Literature $\frac{1}{2}$ credit
Students will explore the Vietnam War through film and also literature such as The Things They Carried by Tim O'Brien, and When Heaven and Earth Change Places by Le Ly Hayslip and Jay Wurts.

Film Studies $\frac{1}{2}$ credit
This course covers the history and development of the motion picture industry. The viewing and analysis of motion pictures classified by genres with 1 sample of each: Mystery, science fiction, westerns, romance, musical, play adaptations, drama/morality, children's movies and "B" movies (low budget). There will be an overview of famous motion picture actors and actresses who have made significant contributions to the industry. The Academy of Motion Picture Arts & Sciences will be covered and the role of videos will be explored. Enrollment is limited to 10-12 grade students.

SOCIAL STUDIES CORE

Global History & Geography 9 & 10 1 credit @
The New York State curriculum calls for a two-year global studies course during ninth and tenth grades. This required course covers geography, history, and current events of all nations, excluding the US and Canada. At the conclusion of the second year of Global Studies, each student will need to pass the NY State Global Studies Regents Exam for graduation.

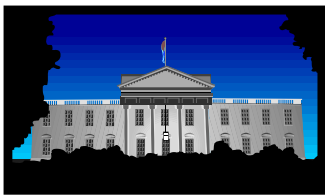
United States History 11 1 credit
This required course will cover American History with an emphasis on the development of American Government. Paperbacks, pamphlets, novels and periodicals supplement the basic textbook. Students will learn through

projects, video and audio presentations, and journals. There is a Regents examination at the end of the course.

Social Studies 12

- Participation in Government ½ credit

In this required course, students acquire knowledge about political, economic, and social institutions and procedures in this country. They gain understanding and attitudes necessary to participate in democratic self-government. They develop the ability to understand and accept people of different races, sex, cultures, religions, and political backgrounds.



- Economics ½ credit

In this required course, students gain basic economic concepts such as scarcity, supply & demand, markets, productivity, opportunity cost, growth and economic systems. They learn how the economic system works in the United States. They learn their role in the economic system as consumer, worker, and voting citizen.

SOCIAL STUDIES ELECTIVES (Open to students in grades 10-12)

Current Events ½ credit @

This course has been designed to encourage thorough up-to-date knowledge about the day-to-day events reported in the media, provide in-depth background into the causes and history of these events, explore the background and current information about the media, and to stimulate thought and discussion about both current events and the manner in which they are reported. Students completing this course will become acquainted with the various mechanisms and areas of the World Wide Web pertaining to news and current events. Print & internet media will be used to open discussion on the events occurring in our nation and world.

MATH

Math Ia

1 credit

This course is designed to prepare students to take the Math A Regents at the end of a *year and a half*. This course moves at a fast pace to cover various topics in algebra, including equation solving, graphing, relations, inequalities, and special products. These are just a handful of the topics covered. It also gives an introduction to geometry topics. The 8th grade math teacher and success in junior high math determine placement in this course.

Math Ib

1 credit

This course is designed to prepare students to take the Math A Regents at the end of *two years*. This course covers various topics in algebra, including equation solving, graphing, relations, inequalities, and special products. These are just a handful of the topics covered. It also gives an introduction to geometry topics. Students in this course will take the Regents exam in June of the second year.

Math IIa

1 credit

This course concludes the preparation for the Math A exam and begins preparing the students for the Math B exam. Students in this class will take the Math A Regents in January. After that they will focus on geometry and proving in order to prepare for the Math B Regents exam that will be given at the end of Math IIIa. *Prerequisite: Pass Math Ia.*

Math IIb

1 credit

This course continues to focus on algebra with the inclusion of logic, trigonometry, and probability. Students enrolled in this course will take the Math A Regents in June. *Prerequisite: Pass Math Ib.*

Math IIIa

1 credit

This course is designed to prepare students for the Math B Regents exam. The topics in this course will be from advanced algebra, trigonometry and statistics. Math B Regents exam will be given in June of this year. *Prerequisite: Pass Math IIa and Math A Regents.*

Math IIIb

1 credit

This course is designed for the student planning on attending college who has taken Math Ib and IIb. Students will work towards taking the Math B Regents at the conclusion of a second year. The course will also integrate various topics that the students need to be successful in college. It will spend time looking at statistics and several other new topics. *Prerequisite: Pass Math IIa or IIb.*

Math IVb

1 credit

This course is for seniors who have successfully completed Math IIIb and wish to continue to take the Math B Regents exam and/or who plan to go to college and want to be ready for college-level mathematics. *Prerequisite: Successful completion of Math IIIb and the Math A Regents.*

Business Math

1 credit

This 1-unit course is designed to develop the specific skills required to solve a wide variety of mathematical problems commonly found in everyday business situations. Development of skill, understanding and applications of fundamental arithmetic processes essential to modern business transactions and accounting practices will be discussed. Successful completion of this course, within prescribed guidelines, will provide one unit of credit, which may be used as one credit toward mathematics graduation requirement. *Prerequisite: Successful completion of Math IIb.*

MAT 123 Pre-Calculus

1 credit

College Credit: 4 hours (Fall 2004)

Preparation for Calculus through an extensive study of the theory of functions. Function families include the exponential, logarithmic, trigonometric, polynomial and rational functions. *Prerequisite for high school credit: Regents Course III with a grade of 75 or better or permission of the instructor. Requirements for college credit through ACC are an overall cumulative average of 85% or better in all subjects, or in the mathematics area.*

MAT 131 Calculus I

1 credit



College Credit: 4 hours (Spring 2005)

Differential calculus from a numeric, graphic and algebraic perspective including functions, graphing, rates of change, limits derivatives, and antiderivatives of algebraic and trigonometric functions, maxima and minima, analytic geometry as needed and the definite integral. *Prerequisite:*

MAT 123. Requirements for college credit though ACC are an overall cumulative average of 85% or better in all subjects, or in the mathematics area.

SCIENCESLiving Environment (Biology)

1 credit

Living Environment is an introductory science course that focuses on humans and how they maintain homeostasis and what happens if homeostasis is interrupted. It also deals with humans and their interaction with the environment. Observation and measurement as well as genetics are also explored.

In addition to meeting once per day, there is a NY State regulation that requires that each student successfully complete at least 1200 minutes of laboratory throughout the year in order to sit for the Regents exam and receive credit for the course.

Earth Science/Physical Setting

1 credit

Earth Science is offered as a second year science course in the high school. The course integrates all levels of science including: biology, chemistry and physics. Main areas of focus in this course are: observation and measurement, energy transfer, geology, astronomy, oceanography, meteorology, and Earth history.

In addition to meeting once per day, NY State regulations require that each student successfully complete at least two laboratory periods each week to receive credit for the course. *Prerequisite: Successful completion of Living Environment.*

Chemistry

1 credit

Offered as a third year of Regents level science, this course allows students to gain a deeper understanding of the physical world around them. The course will explore the chemical aspects of the atom, formulas, equations, physical behavior of matter, periodic table, bonding, solutions, organic chemistry, nuclear chemistry, kinetics and equilibrium, acids & bases and reduction-oxidation. The requirements for the Physical Setting/Chemistry NYS Regents curriculum will be met through classroom and laboratory study.



Prerequisites: Successful completion of Earth

Science and completed or enrolled in Math IIIa or IIIb.

Physics

1 credit

This course offers the students an opportunity to study physics as it relates to the physical world around them. In accordance with the New York State Physical Setting/Physics curriculum, students will study topics such as mechanics, energy, electricity, waves, and modern physics. Through many activities both in and outside of the lab, students will gain a better understanding of the main physical principles in these areas and become prepared for the Regents exam. In addition to meeting once per day, NY State regulations require that each student successfully complete at least two laboratory periods each week to receive credit for the course.

Prerequisites: Successful completion of General Chemistry and completion or enrollment in Mathematics IIIa, or IIIb.

Science 11

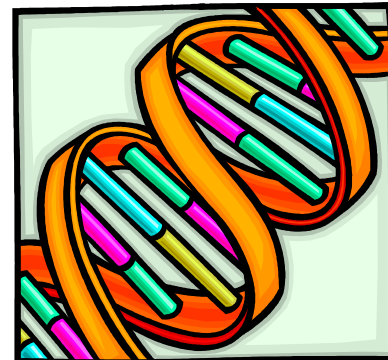
1 credit

Students will explore how basic chemistry & the physical sciences affect their everyday life. Topics will include the atom, chemical equations, acids & bases, solution, phases, organic, nuclear chemistry, linear motion, projectile motion, Newton's laws, energy, circular motion, universal gravitation, sound and light. The course meets the requirement of a third year of science for students not working toward an Advanced Regents Diploma. *Prerequisites: Successful completion of Earth Science.*

Genetics $\frac{1}{2}$ credit

This course will address several scientific concepts and attempt to form a greater understanding of the field of genetics. You will be learning about genetics and genetic research by watching, reading and doing. Some of the major concepts that we will be studying are:

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- Genetics Related to Forensics
- Mendelian Genetics
- Human Genetics
- DNA Analysis
- DNA Structure
- Cloning
- Gene Mutation
- Selective Breeding
- Genetic Engineering
- And Many Others

Forensic Science $\frac{1}{2}$ credit

This course will address several scientific concepts and attempt to form a greater understanding of the field of forensics and criminalistics. You will be learning about forensic techniques by watching, reading and doing. Some of the major concepts that we will be studying are:



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- Genetics Related to Forensics
- Hand Writing Analysis
- Paper Chromatography
- Tire Track Analysis
- Crime Scene Evaluation
- Shoe Print Analysis
- Fracture Patterns of Glass
- Blood Spatter Patterns
- Urinalysis
- Dental Forensics
- And Many Others

Prerequisites for *Genetics* and *Forensic Science* is successful completion of *Biology*. These two classes may be used to meet the third year of science

HUMAN ANATOMY AND PHYSIOLOGY: $\frac{1}{2}$ credit

This course assumes that the student will have basic knowledge of the human body. There will be a strong focus on the interrelationships of the human body systems. Laboratory exercises will be integrated into the course to illustrate and review the anatomical and physiological principles being learned in the course. This course will use problem solving skills to learn the relationship between the human body systems and to determine how homeostasis is achieved and maintained.

ZOOLOGY $\frac{1}{2}$ credit

This course will cover what has been dropped from the living environment course. It will have an evolutionary and ecological focus to help students understand the unifying principles of zoology and the diversity of the animal kingdom. It will look at anatomy and physiology within the groups found in the animal kingdom emphasizing diversity as well as unity within the kingdom.

FIT & WELL: CONCEPTS AND LABS IN PHYSICAL FITNESS AND WELLNESS $\frac{1}{2}$ credit

This course will help students incorporate fitness and wellness in their daily lives. It will focus on components of health related fitness including nutrition, stress, cardiovascular health, and injury prevention. It will give students tools needed to take charge of their own wellness and adopt healthier behaviors. It will be an activity driven course.

HS Health $\frac{1}{2}$ credit

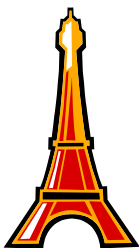
Course content includes:

- Mental health - disorders, emotions and stress
- Family and social health - types of families, relationships with others, marriage and parenthood
- The Life Cycle - before birth, birth, childhood, adolescence, death and dying
- The Body Systems - diseases associated with each and genetics
- Physical Fitness
- Nutrition and responsible food choices
- Drugs, alcohol & tobacco
- Communicable diseases - STD's, AIDS, body's defenses against disease
- Abuse and violence in relationships.

Languages Other Than English (LOTE)

French/Spanish 1

Credit: 1



This course is a continuation of the curriculum begun in 7th grade French/Spanish. Students develop their communicative proficiency in listening, speaking, reading, and writing. They learn to communicate by socializing, providing and obtaining information, expressing their feelings, and persuading others. Topics they learn about may include personal identification, home, food and drink, leisure activities, etc.

French/Spanish 2

Credit: 1

Prerequisite: French/Spanish 1

Students further develop their listening, speaking, reading and writing skills with the introduction of more complicated structures. Communication is stressed. There is a higher level of proficiency expected in French/Spanish 2.



French/Spanish 3

Credit: 1

Prerequisite: French/Spanish 2

Students begin to develop more extensive reading and writing skills. The emphasis is now on their ability to understand and communicate in French/Spanish. In order to increase their vocabulary, they read materials in French/Spanish and learn how to write short notes and letters. They also develop a cultural understanding by studying important aspects of the history and civilization of France or Spanish countries.

French/Spanish 4

Credit: 1

Prerequisite: French/Spanish 3

Vocabulary and civilization work is continued. In addition, they begin to explore more sophisticated forms of communication. French: They begin to study excerpts from prose and poetry with a view toward gaining an understanding of French literature as well as broadening their vocabulary.

French 5/Spanish 5

Credit 1

Prerequisite: French 4/Spanish 4

Vocabulary and literature work from French/Spanish 4 is continued. The French students also undertake a study of some of the better-known regions of France. They study the regional characteristics as well as the typical cooking of each region. In conjunction with this study, the students prepare and eat dishes typical of the regions that they are studying.

BUSINESS ELECTIVES

By introducing Business Education courses, a teacher can keep students' enthusiasm high throughout their high school years. Nearly all jobs will soon require workers to know how to process data and / or use information systems. Thus, in its new role Business Education calls for the development of a balanced program that will enable students to acquire a broad understanding of the concepts that will enable them to adapt quickly to the changing requirements of new technologies and to benefit from lifelong education and training opportunities. Graduates of our program have used their training to pursue careers in Marketing, Accounting, Business Administration, Secondary Education, and Law. *Business classes are offered on a rotating basis, not all classes are available every year.*

Computer Literacy $\frac{1}{2}$ credit (Fall)

Students will learn valuable computer skills that can be applied to their high school coursework and workforce responsibilities. This 1/2 year (20 weeks) course introduces three concepts: proper keyboarding techniques including speed and accuracy, fundamental computer software knowledge, and application for various, computer-related situations.

Students, using consistent practice of proper technique, can expect to attain a minimum, keyboarding competency of 35 words per minute with 100% accuracy by the end of the course. The skill gained from the completion of this course is significant for elevating the quality of high school coursework and competing in today's workforce.

Open to students in grades 9-12.

Advanced Computer Literacy $\frac{1}{2}$ credit (Spring)

Upon successful completion of Computer Literacy, students will learn additional computer skills. Advanced features of the application software include Microsoft Word (word processing, i.e. letters, reports), Microsoft Access (database, i.e. address book), and Microsoft Excel (spreadsheet, i.e. budgets, checking accts.). At this level, students, using consistent practice

of proper technique, can expect to attain 35 - 55 words per minute with 100% accuracy by the end of the course.

In addition to the computer application software listed above, Microsoft PowerPoint will be taught. This slide presentation software enables students to make oral reports and other presentations professional looking and technologically impressive.

Open to any student who has successfully completed Computer Literacy.

Introduction to the World Wide Web

$\frac{1}{2}$ credit

Students will learn researching techniques, including browsing and searching using search engines, directories and metasearch tools. School research, career research, and consumer research will be practiced. Communication applications will be learned and students will apply this knowledge to a variety of projects throughout the course.

Open to students in grades 9-12 who have completed Keyboarding or Computer Literacy.

Accounting

1 credit

This is a beginning accounting course designed for those students with no previous accounting experience. The students will learn the fundamentals of double-entry accounting, the accounting cycle steps, and they will determine the value of assets, liabilities, and owner's equity according to generally accepted principles and explain when and why they are used. In addition, they will prepare, interpret, and analyze statements using manual and computerized systems for service, merchandising, and manufacturing accounting. Students will learn to apply appropriate accounting principles to various forms of ownership, payroll, income taxation, and managerial systems. Emphasis will be placed on planning and control principles to evaluate the performance of an organization and apply differential analysis and present value concepts to make logical decisions.

Limited to students in grades 11 & 12.

Sports Marketing Essentials

1 credit

This course is designed to provide students with a basic foundation in the starting, managing, and marketing of a small business with emphasis being placed on sports. Content includes selected entrepreneurial skills as well as those necessary to the management, merchandising, and marketing functions

inherent in the operation of a small business. Students successfully completing the course will have a solid foundation in concepts that may be utilized in starting a small business or entering employment immediately after high school, or as a basis for postsecondary study.

Limited to students in grades 11 & 12.

Business Law

1 credit

One of the principle reasons for the popularity of Business Law in high school is the relevancy of the subject matter. The law touches the lives of each of us; a student needs to be made aware of the presence of legal requirements in a variety of day-to-day business transactions so he / she may avoid legal entanglements involving his / her rights or obligations. Business law also seeks to develop a respect for the law enforcement as they affect personal, family, and occupational pursuits.



More specifically, you will learn about the legal environment in which you live and about the laws which govern human conduct in a civilized society. You will learn how to avoid many legal difficulties and how to cooperate more effectively with a lawyer if and when that proves desirable or necessary.

Limited to students in grades 11 & 12.

Business & Personal Finance

1 credit

This 1-unit course is designed to explore and apply investment information necessary throughout life, to take advantage of financial opportunities available at various learning levels. The forecasting of earnings and selecting of appropriate investments as part of the effective management of personal assets are also taught. Today's youth will be required to take more personal responsibility for actively managing their finances. In this course, students will learn how to evaluate investment options, budgets, and prepare financial goals.

Limited to students in grades 11 & 12.

Business Communications (BUS 211)

1 credit

ACC College credits - 3 (Fall 2004)

Theory and application of a variety of communication forms used in modern business. Listening, speaking, reading, writing, and nonverbal communication skills are emphasized and developed within the context of business and

industry applications. The nature of communications in today's business society, the language system, the importance of emerging technology in relation to communication skills, and the technical aspects of language are included. Letters, memos, reports, resumes, meetings, press releases, and other topics are considered.

Prerequisites: 85%+ average in either *Business or Overall*. *Computer Literacy required.*

Word Processing in Windows (Bus 100)

1 credit

ACC College Credit - 3 (Spring 2005)

A beginning level course which provides an overview of the Windows environment, use of the mouse, and basic experience in creating text, modifying text, and applying attributes to text in different types of documents using a Windows version word processing program. Employment seeking skills are also taught.

Prerequisites: 85%+ average in either *Business or Overall*. *Computer Literacy & Adv. Computer Literacy required.*

ART ELECTIVES

(Open to students in grades 9-12)

Art classes are offered on a rotating basis, not all classes are available every year.

Studio in Art I/II

$\frac{1}{2}$ credit @

An introduction to basic skills and techniques through creative approaches in various art media. An understanding of and creation of art appreciation concepts are developed concentrating on art history involving artists' background. Basic materials explored are pencil, charcoal, pastel, tempera, plaster, clay, etc. Creative problem solving art experiences give students the opportunity to discover and learn new approaches through art imagery.



Artists in the field and career art related resources in areas of study are explored. A sketchbook is required. A student may use this course for fulfilling his/her art/music requirement for graduation.

Studio In Ceramics I/II

Credit: $\frac{1}{2}$ @

Basic introduction to the study of clay as three dimensional form is explored through various methods. Coil, slab, free form, and wheel throwing clay techniques will be emphasized in the students' creative development. Kiln firing, loading procedures, proper glazing applications, knowledge of ceramic terminology, and historical background will be learned. Emphasis is on craftsmanship in hand-building, continued development of throwing on the wheel and exploring new glaze application. Becoming familiar with known ceramists and improving the elements of creative and visual design in clay are covered.

Graphic Arts I/II

$\frac{1}{2}$ credit @

Students will explore visual demonstrations of advertising, emotions, self and various cultures through drawing. Drawing skills will be the ongoing theme throughout both semesters as students visually demonstrate knowledge from research. Units will include advertising design, touching on some psychology, self-portraits, and school/USA Spirit posters. Posters advertising travel, products, entertainment, etc., will be produced using various mediums. Students will explore use of pencil, charcoal, colored pencils, & paint to produce graphics that express a message - personal or commercial. Visual expression through various mediums. Linoleum block printing and T-shirt design will be included.

Drawing & Painting $\frac{1}{2}$ credit @

A comprehensive course exploring drawing mediums and methods. From everyday #2 pencil to Derwent, charcoal and pastels, students will experiment, practice and become proficient with a wide range of drawing mediums. Drawing skills will be developed by observation and practice of many methods. Students will learn to use form, line, shadow and space to create good composition. Students will learn several methods of painting; watercolor, acrylic and staining among them. Students will learn how to create representational and abstract compositions using color and form

TECHNOLOGY

Design & Drawing for Production

1 credit

This class is the next step for students who were interested in the middle school technology classes. In this class students will explore the design process while completing a variety of hands-on projects. Creative thinking, decision-making and problem-solving skills will be developed. Students will learn to create precise technical drawings using a drawing board and t-square at first and will then progress to using the computer as a design tool. Careers in design and engineering will be explored. This course satisfies the art/music requirement for graduation. Maximum enrollment of 20.

Computer Graphics I $\frac{1}{2}$ credit

In this class students will learn to use the computer as a digital presentation and art tool. Topics will include history of computer graphics, raster (bitmapped) & vector graphics, 3D modeling, digital image editing and careers in computer graphics. Open to students in grades 9-12. Maximum Enrollment - 12.

Computer Graphics II $\frac{1}{2}$ credit

This class builds upon what the student has learned in Computer Graphics I. Topics will include advanced raster (bitmapped) & vector graphics, 3D animation and digital video production. *Prerequisite: Successful completion of Computer Graphics I with passing grades in both quarters.* Maximum Enrollment - 12.

CAD I (Computer Aided Design) $\frac{1}{2}$ credit (Fall)

In this class students will learn to use the computer as a technical design tool using ProDesktop. Students will learn to create precise 3D models of real world objects. From these models, students will use the software to generate detailed engineering drawings. CAD I will concentrate on the basics of working with ProDesktop to create simple models, assemblies and drawings. Topics will include history of CAD, introduction to standards, dimensioning and careers in computer aided design. *Prerequisite: Successful completion of DDP*

CAD II (Computer Aided Design II) ½ credit (Spring)

In this class students will build upon the skills they developed in CAD I. The focus will be on more complicated parts and assemblies. Topics will include standards, fits and tolerances, manufacturing operations and design for manufacture. *Prerequisite: Successful completion of CAD I with passing grades in both quarters.*

Introduction to Computer Programming ½ credit (Fall)

This class will introduce the student to the logic behind designing a computer program. Topics will include computer hardware and operating systems, scripting, interpreted vs. compiled programs, program design in Visual BASIC (input and output, variables, arithmetic operations, if statements and loops), programming languages, copyrights and careers in programming. The majority of time will be spent designing and testing programs. Microsoft Visual Studio will be the primary programming environment with a concentration on Visual Basic. *Prerequisite: None, Enrollment - 12 students maximum per class.*

Robotics ½ credit (Spring)

In this class students will learn to design, build, program and evaluate robotic devices to perform specific functions. Topics will include the history of robotics, robot applications, hydraulic and pneumatic systems, electrical systems and motors, control systems and programming, safety issues and careers in robotics. The majority of time will be spent actually building and programming robotic devices. Lego Robolab will be used for much of the class. *Prerequisite: None, Enrollment - 12 students maximum per class.*

FAMILY & CONSUMER SCIENCE ELECTIVES

(Open to students in grades 9-12)

FACS Courses are offered on a rotating basis, not all classes are offered every year.

Gourmet Foods

$\frac{1}{2}$ credit



This course is designed to expand the basic knowledge of nutrition and food preparation. Focus will be on types of meal service, various table settings, appropriate behavior and manners as well as the knowledge and skills needed to prepare basic foods nutritionally considering appeal, flavor, texture and economy.

International & Regional Foods

$\frac{1}{2}$ credit

This course provides information on the various cultures and customs of other lands and regions. Relating the knowledge of a country or area, this course focuses on preparing nutritionally complete and reflective menus and meals. The students learn to identify various food products with their use and origin. This course is designed to help the student become aware of how his/her own environment is influenced by the world.

Food & Nutrition

$\frac{1}{2}$ credit

Students will develop an understanding of basic nutritional concepts through instruction in nutritional requirements and the planning, purchasing, preparation, and service of nutritious food. Students will also explore careers and employment opportunities in the area of food and nutrition and compare these careers to personal abilities and characteristics.

Food Preparation

$\frac{1}{2}$ credit

This course will teach students the basic skills required for following a recipe. Learned skills will include preparation, safe and sanitary procedures, use of/care of kitchen equipment and terminology and measurements for following simple recipes. A learn-as-you-go course with lots of cooking.

Housing and Interior Design

$\frac{1}{2}$ credit

A "fun" course with computer projects, field trips, walking tours and hands-on construction and designing. Students will learn about architectural styles and interior design while releasing their creative genius.

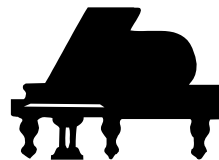
MUSIC ELECTIVES

(Open to students in grades 9-12)

Music In Our Lives

$\frac{1}{2}$ credit

This course affords the students the opportunity to appreciate the hands-on, or physical, aspects of performance, composition, listening, and general understanding of the art of music. A student may use this course for fulfilling his/her art/music requirement for graduation.



High School Chorus

$\frac{1}{2}$ credit

This is a course designed for the individual who is very interested in the area of choral music and is *highly motivated*. In an ensemble setting, students will experience the joy of singing (classical, traditional, jazz, pop, folk, rock, etc...). Students enrolling in this class must have a positive attitude, exemplary behavior, and be eager to develop his/her musical style and ability. Teamwork is a must. Attendance at concerts is mandatory. A student may use this course for fulfilling $\frac{1}{2}$ of his/her art/music requirement for graduation.

High School Band

$\frac{1}{2}$ credit

Band meets every other day for rehearsals. To enter band one must play on one or more instruments at the high school level. A student has a sectional lesson once every week. He/she may participate in marching band, stage band, or any special group that comes up during the year. They are also invited to participate in the All-County Festival and All-State Festivals. A student may use this course for fulfilling $\frac{1}{2}$ of his/her art/music requirement for graduation.

Musical Theatre

You do not have to be an actor or singer to take this course! There are a lot of interesting "behind the scene" jobs in theatre. Students learn the foundations of the Musical Theatre from stage and design to casting and directing. The class watches and analyzes various musicals, collaborates as a creative team to put on a small production and finally takes a field trip to see a professional play.

Guitar $\frac{1}{2}$ credit

Students are introduced to the basics of guitar. The class learns tuning, basic chord progressions and note reading. Students work on various songs at their own level of proficiency. Students also work together on duets and learn basic guitar composition. This course runs for half of a year.

Piano $\frac{1}{2}$ credit

Students are taught notes on the treble and bass clef, scales and arpeggios and note reading on a keyboard. Students are graded on basic songs completed but work on an individual level. Students are also taught basic keyboard composition if time permits. This course runs for half of a year.

Physical Education

4 years required

Philosophy of Physical Education:

It is the responsibility of education to meet the needs of the student and to prepare him or her to be an active, healthy, and responsible participant in society. Physical education is an integral part of the education curriculum due to the fact that it fulfills the physical, intellectual and social growth and development needs of students. It is unique in that it is the only part of the curriculum that meets the physical needs of the students. We believe that physical education is responsible for accepting each child with his or her own pattern of growth and development and guiding him or her through an enriching, well-balanced program of activities encouraging both individual and group development.

Participation and Attendance:

Regular class attendance is mandatory unless a medical excuse from a physician specifically states that a student cannot participate in that activity or in any required part of the physical education program. Students who are temporarily excused from one activity must be in attendance at their physical education class and are responsible for the work covered.

Successful completion of physical education for four years earns the necessary 2 credits for graduation (1/2 credit per year is received with a passing grade). Illegal absences will be dealt with in accordance with current school policy.

Grading:

The following areas will affect the student's grade: effort, attitude, participation, degree of improvement, knowledge, achievement, respect of self and others. These objectives are converted into grades, complying with school policy.

Outdoor Fall Activities:

Soccer and Field Hockey
Touch Football

Speedball

Lacrosse

Walking for fitness

Physical Education, Con't.**Indoor Winter Activities:**

Racquetball
Volleyball
Basketball
Floor Hockey
Badminton
Bowling
Indoor Soccer
Rhythms

CPR/First Aid

Cross Country Skiing

Outdoor Spring Activities:

Horseshoes
Softball
Frisbee Golf
Project Adventure
Bocce Ball
Golf

CTE (BOCES) PROGRAM DESCRIPTIONS

All CTE classes at Fort Ann are available at the Southern Adirondack Educational Center (SAEC) in Hudson Falls unless otherwise indicated. Courses labeled "Saratoga" are taught at the Myers Center. CTE classes are available to all 11 & 12th grade students who are in "good standing" and who are not behind in credits or required courses needed for graduation. English 12 and the third credit of math are included for most students who take 2 years of a CTE program. See the guidance counselor for more information.

Auto Body Repair (Saratoga Only)

The Auto Body Repair program teaches to the NATEF National skills standard, developed by the National Automotive Technicians Education Foundation. Students learn techniques to repair, repaint, and detail vehicles in order to restore them to their original condition. They receive hands-on training in body alignment, dent removal, welding, fibreglassing, painting (in our new, state-of-the-art paint booth), and refinishing. They will also gain experience in trim and glass work. The Auto Body Repair program is certified by the State Education Department. Students who successfully complete the program will have the chance to earn Automotive Service Excellence (ASE) certification in Paint and Refinish and ADP certification in Estimating Training. Students in Auto Body Repair can receive college credit at Universal Technical Institute Automotive/Diesel College in Nashville, TN.

Automotive Technology

The Auto Body Repair program teaches to the NATEF National skills standard, developed by the National Automotive Technicians Education Foundation. Students work with the latest technologies in order to hone diagnostic and repair skills on modern vehicles. Students study the theories and principles behind brakes, electronics, engines, suspension, steering, and cooling systems in order to earn Automotive Service Excellence (ASE) certification. Learning is accomplished in a hands-on environment, on vehicles owned by real customers. Students will learn customer relations, parts management, shop management, and preventive maintenance. The Automotive Technology program is certified by the State Education Department. Students who successfully complete the program will have the chance to earn Automotive Service Excellence (ASE) certification in Brakes, Electrical/Electronics Systems, Engine Performance, and Steering and Suspension. They can also become certified NYS Department of Motor Vehicles Inspectors. Students in Automotive Technology can receive college credit at Columbia-Greene Community College, State University of New York at Canton, and Universal Technical Institute Automotive/Diesel College in Nashville, TN.

CISCO Networking Academy (Saratoga Only)

The CISCO Networking Academy teaches to the CISCO Certified Network Associate national skill standard. The program helps students tap into the Information Technology field and gain the skills needed to begin a successful career. CISCO Networking Academy is a two-year program that prepares students of all ages to obtain national certifications in computer repair, voice and data wiring, and Local Area Network management. The CISCO program is certified by the State Education Department. Upon successful completion of the CISCO program, student have the opportunity to earn the following certifications: CISCO Certified Network Associate (CCNA), BISCO Registered Certified Installer Level I, Com/TIA A+ 2002 Hardware and Operating System Certification, and Com/TIA Server and Certification. Students in the CISCO Networking Academy have the opportunity to earn college credit at Adirondack Community College and ITT Technical Institute.

Conservation

The Conservation program teaches to the New York State Sustainable Forestry Initiative standard. It teaches students how to manage natural resources and tap into them without damaging them. Much of the program revolves around the equipment used to manage natural resources - like bulldozers, forklifts, and dump trucks. Students will learn to operate and repair these machines while implementing community service projects. Students who successfully complete the Conservation program can earn certification as a New York State Trained Logger. They can also earn certification in CPR, Automated External Defibrillator Use, a Class B Commercial Driver's License, and Lift Truck operator license from OSHA. Students in Conservation have the opportunity to earn college credit at Paul Smith's College.

Construction Trades

The Construction Trades program employs a standardized curriculum that was developed by experts in the construction trades industry through the National Center for Construction Education and Research (NCCER). The program covers construction, maintenance, and pipeline for over 35 crafts (listed below.) The modular programs are based on competency and include written and performance evaluations. Each level meets or exceeds Apprenticeship, Training, Employer, and Labor Services (ATELS) requirements of 144 classroom hours. When students successfully complete a module of a craft curriculum, they will receive a transcript from NCCER, which will also be maintained and updated on NCCER's National Registry. The NCCER training and National Registry ensure the students' accomplishments will be recognized by employers wherever they go, no matter where they trained. The National Registry also records the results of National Craft Assessment and Certification Program (NCACP) Skills Assessments, which evaluate journey-level knowledge and skills of experienced craftspeople. The

Construction Trades program is certified by the State Education Department. In addition to NCCER certifications, students who successfully complete the Construction Trades program can earn certification in powder, actuated nail gun, and license to operate a forklift.

Available Crafts Include:

Carpentry
Concrete Finishing
Construction Craft Laborer
Construction Technology
Basic Construction Skills
Electrical (Basic and Advanced)
Highway/Heavy Construction
Instrumentation
Insulating
Ironworking
Maintenance: Industrial
Masonry
Millwright
Mobile Crane Operations
Painting
Residential Carpentry
Residential Electrical
Scaffolding
Sheet Metal
Sprinkler Fitting

Cosmetology

This two-year, 1,000-hour program prepares students to take and pass the New York State Boards in order to become a New York State Licensed Cosmetologist. Students learn hair styling, cutting, shaping, coloring, and chemical restructuring. They practice the latest trends in manicures, pedicures, and facials, using state-of-the-art spa equipment. They also run a full-service salon and day spa on campus, which caters to real customers, in order to gain management skills and customer service experience. The Cosmetology program is certified by the State Education Department. Students in Cosmetology have the opportunity to earn college credit at Schenectady County Community College.

Criminal Justice Studies

Criminal Justice Studies teaches to the International Federation of Protection Officers standard. The curriculum promotes a philosophy of prevention rather than apprehension and covers a multitude of topics including: terrorism, VIP protection,

homeland security, emergency planning, disaster control, crowd control, law, crisis intervention, public relations, professional ethics, and more. Criminal Justice Studies is a two-year program that gives high school juniors and seniors the foundation for success in the following careers: Law Enforcement Services, Legal Services, Emergency and Fire Management Services, Security and Protective Services, and Correction Services. The program is designed to give students a glimpse of career options, hands-on experience, and instruction in English (through mock trials, police reports, civil service tests), math (through accident investigations, budget development, crime scene sketching), and science (through crime scene investigations and forensics). The Criminal Justice Studies program is certified by the State Education Department. Students who successfully complete the course can become Certified Protection Officers; pass the 8-hour Pre-Assignment Security Guard certification; and earn certification in First Aid, CPR, and Automated External Defibrillator Use. Students in Criminal Justice have the opportunity to earn up to six college credits at Adirondack Community College, Herkimer Community College, and Schenectady County Community College.

Culinary Arts

The Culinary Arts program teaches to the National Restaurant Association Educational Foundation national standard. Students gain the work experience and classroom knowledge necessary to succeed in the food, beverage, and hospitality industry. The program also provides a solid core of transferable skills that can be applied to a wide variety of careers. The two-year Culinary Arts program introduces high school juniors and seniors to concepts not found in traditional programs - like customer relations, restaurant accounting practices, purchasing and inventory control, culinary nutrition, safety/sanitation, culinary techniques, pastry arts, and hospitality management. The practical curriculum, combined with real-life work experience, imparts real-world skills and foodservice concepts. The Culinary Arts program is certified by the State Education Department. Students who successfully complete two years of study and a work-based learning experience (internship) will earn the ProStart certification from the National Restaurant Association, Serve-Safe certification, and Basic First Aid. Students in Culinary Arts have the opportunity to earn college credit at Adirondack Community College and over 20 colleges listed in the National Restaurant Association's ProStart Passport.

Early Childhood Education

The Early Childhood program teaches to the Child Development Associate national skills standard. Early Childhood Education is a two-year program for high school juniors and seniors that will prepare students for college (to pursue careers in teaching, child psychology, or other related fields) or the work force (either in a day care or Head Start program). Part of the day is spent in the classroom, learning about child development, guidance, health, safety, nutrition, and curriculum development. The other part is spent running a full-time preschool for 3- and 4-

year olds, which includes story-time, snack-time, crafts, colors, shapes, and age appropriate activities. The pre-school, or instruction lab, is similar to those found on college campuses - the room is set up as an actual pre-school with cubby holes, toys, books, paint stations, and mats for circle time. It also features a large two-way mirror and microphones so teachers and classmates can observe as students work with the children. Early Childhood Education is certified by the State Education Department. Upon successful completion of the program and all additional requirements in the Professional Preparation Program, students can earn the Child Development Associate credential. Students can also earn certification in CPR. Students in the Early Childhood program can earn college credits at Schenectady County Community College.

Electronic Imaging and Reproduction Technology

Students in this 2-year program learn print production techniques from concept to completion. Students learn the principles of layout and design, color theory, and desktop publishing. They design materials such as letterhead, business cards, or multi-colored brochures; choose paper stock; and prepare the job (including digital imaging or offset plate making) for printing. Once the job is printed, students practice various finishing techniques from binding to lamination.

Graphic and Visual Communications

The Graphics program teaches to the Macintosh Operating System national skills standard and includes software instruction in Quark Xpress, Adobe Photoshop, Adobe Illustrator, and Adobe Go Live. The Graphic and Visual Communications program gives students the skills needed to succeed in graphic design for television, print, and the internet. Students use state-of-the-art computers and digital equipment to create websites, brochures, and videos. They also learn audio and video editing, animation, digital photography and illustration, and the basics of layout and design for all mediums. The graphics program is certified by the State Education Department. Upon successful completion of the program, students can earn certification in Adobe Illustrator and Photoshop. Students can also earn college credits at North Country Community College.

Heating, Ventilation and Air Conditioning (HVAC) (Saratoga Only)

The Heating, Ventilation and Air Conditioning program teaches to the HVAC Excellence national standard. Students learn the mechanics behind almost every system in the house. Students train on state-of-the-art HVAC equipment (recently provided by F.W. Webb) in order to understand both commercial and residential heating and air conditioning systems. The program will cover basic electricity and piping; HVAC heating controls, wiring and testing; basic oil burner operation and service; and gas burner operation and service. It also covers plumbing, small appliance repair, and fixture installation. By the end of the program, students will

have all the necessary skills for an entry-level position as a service technician. The HVAC program is certified by the State Education Department. Upon successful completion of the course, students can earn the following certifications from HVAC Excellence: Electrical Air Conditioning, Commercial refrigeration, R-410A, Commercial Air Conditioning, Gas Heat, Oil Heat, Hydronics I & II. They can also earn EPA 608 certification and license to operate a fork lift. Students can earn college credits at Hudson Valley Community College.

Heavy Equipment Operation and Maintenance

The Heavy Equipment program teaches to the National Center for Construction, Education and Research national standard. Students learn to operate, repair, and maintain a variety of large machines including: bulldozers, backhoes, dump trucks, fork lifts, excavators, and more. In the classroom, students learn the principals and theories behind air brake systems, gas and diesel engines, power trains, and hydraulics. Outside the classroom, they gain hands-on experience repairing machines in the shop and operating them at worksites. The Heavy Equipment program is certified by the State Education Department. Upon successful completion of the course, students can earn a New York State Commercial driver's License and Industrial Truck Lift License.

Horse Care (Saratoga Only)

The Horse Care program teaches to the United States Trainers' Association (USTA) national skills standard. Students report to school at the Saratoga Equine Sports Center where they learn equine and veterinary science on live, Standardbred horses. The program covers equine systems and physiology, nutrition, health, diseases, and emergency medical care. Students learn to train Standardbreds for racing (using related tack and equipment) and manage a stable, which entails everything from purchasing feed to breeding. Horse Care is certified by the State Education Department. Upon successful completion of the program, students can earn their USTA Trainer certification. They can also earn college credits at State University of New York at Morrisville and Canton.

Horticulture and Landscaping

This program curriculum was reviewed and endorsed by the New York State Nursery/Landscape association, Inc. Students learn horticulture principles, landscape design, greenhouse production, floral design, retail sales, merchandising, and shop management. The program covers soil and turf management and pesticides. Students have the opportunity to design landscaping for some of the area's finest gardens and see their visions grow from start to finish. They also gain hands-on experience through community service projects and internships at florists, garden centers, and greenhouses. Horticulture and Landscaping is certified by the State Education Department. Upon successful completion of the course plus further training and experience, students can become Certified Nursery Professionals. They

can also earn pesticide certification and license to operate a fork lift. Students can earn college credit at State University of New York at Morrisville and Cobleskill.

Machine Tool Technology

This program teaches to the National Institute for Metalworking Skills, Inc. national skills standard. Students learn to make components from blueprint to completion and work with computer drafting programs like CAD/CAM and precision measuring equipment. Following the design phase, students utilize machine tools like lathes, surface grinders, drill presses, and power saws, to complete the project. Upon successful completion of the program, students can earn Machining Level I certification.

Medical Assisting

For high school seniors who successfully completed the Nurse Assisting course the previous year, the Medical Assisting program provides a more in-depth look at the medical field. Students learn about home health care, EKG, patient rights, phlebotomy, and how to manage a medical office. Clinical work will be done in hospitals, nursing homes, physician offices, clinics, and insurance companies. Upon successful completion of the program, students will earn certification in CPR and first aid.

New Visions Programs (For Qualified Seniors Only)

New Visions programs are academically rigorous courses for college-bound high school seniors who plan to major in the following disciplines: engineering, health/medicine, and theatre arts. New Visions programs provide students with a competitive edge when applying for college admissions because their advanced studies include work experience alongside industry professionals in a variety of disciplines. (You must provide your own transportation).

Engineering

This program combines calculus and physics with instruction in engineering principles. Progressing through rotations, students observe and participate in practical field work in areas such as Mechanical, Civil, Electrical and Chemical Engineering. Students are provided instruction in preparation to take the Advanced Placement (AP) exams in physics and calculus.

Health Careers Explorations

Students learn and work in a hospital setting alongside physicians, physician assistants, physical and occupational therapists, registered nurses, and a wide range of other health care professionals. Students progress through rotations in a variety of health professions and earn credit for human anatomy and physiology, government/economics, senior English and health careers.

Theatre Arts (Saratoga Only)

Students will study acting techniques, staging, blocking, script analysis, script writing, movement, vocal work, directing, improvisation, stage management, scenic design, costume design, lighting design, sound design and theatre management. Students will work with professional directors, designers, technicians and producers and earn two credits for theatre arts, one credit for English, and one-half credit each for economics and participation in government.

Nurse Assisting/Health Occupations

This program teaches to the Certified Nurse Assistant national skills standard. High school juniors or seniors learn the necessary skills for taking care of elderly or ill patients through the Nurse Assisting program. This 130-hour training program stresses medical terminology, safety, body mechanics, and communication skills. Thirty hours will be spent in a clinical setting, where students shadow healthcare workers at local facilities, community agencies, and nursing homes. This program is certified by the State Education Department. Upon successful completion, students can earn their Certified Nurse Assistant certification. They can also earn certification in CPR and Automated External Defibrillator. Many students who complete the Nurse Assisting program go on to the Practical Nursing program (see below).

Office and Computer Technology

This program teaches to the Microsoft Specialist national skills standard in many software specialties. The Microsoft Office Specialist certification is the globally recognized standard for validating expertise with the Microsoft Office suite of business products. This is a two-year program for high school juniors and seniors in which students learn to develop databases, create presentations, utilize spreadsheets, and create fliers and brochures with desktop publishing. Year one provides students with knowledge of applications like Microsoft Word, Excel, and Access. In Year two, students go on internships, where they gain additional skills in real office environments. Upon successful completion of the program, students can earn certification in Microsoft Office, which encompasses Word, Excel, Outlook, Access, and PowerPoint.

Outdoor Power Equipment Technician

This program teaches to the Engine and Equipment Training Council national skills standard. Students learn 2-stroke and 4-stroke engine theory and principles (2-stroke and 4-stroke engines are found on lawn and garden equipment, motorcycles, all-terrain-vehicles, boats, snowmobiles, jet-skis, etc.). The classroom is run like a regular shop. Students write work orders, diagnose equipment problems, calculate parts margins and sales tax, prepare estimates, order parts, and complete repairs. The Outdoor Power Equipment Technician program is certified by the State

Education Department. Upon successful completion of the program, students can earn EETC/OPE Technician Certification in Two Stroke and Four Stroke Engine Repair and Service. They can also obtain a license to operate a fork truck. Students can earn college credit at State University of New York at Cobleskill.

Practical Nursing

Practical Nursing is a 1,200-hour training program that provides students with rigorous academic training and a variety of clinical experiences in hospitals and nursing homes. It prepares students to take the New York State Board for Practical Nursing Licensing Exam. High school students generally complete the course in two years, while adult students have the option of attending full-time and completing the course in one year. Prior to entering this program, students must first pass the LPN entrance exam, which is given periodically at the Myers Education Center and the Southern Adirondack Education Center. Practical Nursing is certified by the State Education Department. Upon successful completion, students can earn their LPN Licensure and certification in CPR, CAN, and Medical Asepsis. Students can earn credit at Ellis Hospital and statewide LPN to RN.

Welding

This program teaches to the National Center for Construction Education and Research national skills standard. Students learn entry-level skills in oxygen/acetylene welding - including using the cutting torch, brazing, running a bead, multiple pass welds, and joint setup. Safety is strongly emphasized. Students learn basic rod identification and use both E-6010 and E-7018 welding rods. As the year progresses, they will explore mig and tig welding, layout and design. Welding is certified by the State Education Department. Students who successfully complete the program can earn certification from NCCER and the American Welding Society (AWS). They can also earn college credit at Mohawk Valley Community College and State University of New York at Delhi.