

COURSE DESCRIPTION GUIDE
2017-2018



Fort Ann Central School
1 Catherine St.
Fort Ann, NY 12827

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Student Course Selection Process

All students will meet with the counselor to choose his/her courses for the next year and bring home a copy of selections for parent/guardian review and signature.

The signed *Course Request Form* needs to be returned to the Guidance Office.

Course offerings, including courses offered through distance learning, are subject to change.

College tuition and AP exam fees are the responsibility of the student/parent(s).

The counselor may modify a student's course selections if they do not successfully complete one or more courses for the current school year.

If you have any questions concerning your child's course selection or graduation requirements, please call the Guidance Office at 639-5594 ext. 52101 or email Mrs. Spooner at cspooner@fortannschool.org.

Career & Technical Education Department

Course Name: Automotive Technology

Amount of Credit: 3 credits per year

Description: A two-year program based on the National Automotive Technician Education Foundation (NATEF) model for Maintenance and Light Repair. The National Automotive Technician Education Foundation evaluates entry-level technician training programs against standards developed by the automotive industry and accredits qualifying programs. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Construction Trades

Amount of Credit: 3 credits per year

Description: Construction Trades is a two-year program that uses the trade curriculum developed by the Residential Construction Academy, which was created by the construction industry across the country. The program provides students with basic knowledge of tools, methods, and materials used in the construction industry. Emphasis is placed on construction theory as well as related math and ELA. Students will be educated about the tools, materials, technologies, and techniques currently used in the field. Practical experiences make a difference with employers and colleges. Students will be working onsite constructing a modular house, performing community service, and will work on a variety of small construction projects each year. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Cosmetology

Amount of Credit: 2 year program, 3 credits per year

Description: The Cosmetology Program is dedicated to training students for successful careers in the cosmetology industry. Students will learn the hands-on fundamental skills necessary to pass their state board exam and prepare them for entry-level positions. Students will develop skills in haircutting, hairstyling, hair coloring, texture services, and skin and nail care. Students will participate in our on-campus full service salon, catering to real clients in order to gain customer service experiences. Students will develop business skills, leadership skills, and technical skills to help them become salon professionals in the field of cosmetology. Cosmetology combines crucial elements of art, science, technical skills, interpersonal skills, and entrepreneurship. Students enrolled in a cosmetology-licensing program must accumulate the required 1000 hours of classroom instruction and clinical experience, as well as successfully complete the program, in order to be recommended by BOCES to take the New York State (NYS) Licensing exam(s).

District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Criminal Justice Studies

Amount of Credit: 3 credits per year

Description: Criminal Justice Studies is a two-year course designed for students interested in careers in law enforcement, investigations, security, corrections, courts, law, social work and counseling, or other related fields. The comprehensive curriculum is presented through classroom instruction, computer-based learning and hands-on related activities and labs. Rigorous academic work prepares students for college and civil service exams, along with minimal physical and military-type activities that are required for advancement in some criminal justice professions. Instruction is often reinforced with simulation and real life applications and outcomes. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Culinary Arts & Hospitality

Amount of Credit: 2 year program, 3 credits per year

Description: Culinary Arts implements an industry-based program that prepares students for careers in the restaurant and foodservice industry. The curriculum includes kitchen basics, safety and sanitation, purchasing and inventory control, customer service, and food and cost control. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Early Childhood Education

Amount of Credit: 3 credits per year

Description: A two-year program based on Child Development Associate (CDA) competencies and requirements, focusing on developing skills in early childcare and the education professions. Students learn to provide guidance, promote positive and productive relationships with families, and ensure a well-run child care program. Students learn to establish and maintain a safe, healthy learning environment, while nurturing the physical, intellectual, social, and emotional development of young children. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Environmental Conservation and Forestry

Amount of Credit: 3 credits per year

Description: A two-year program that aligns with the Society of American Foresters Programs in Forest Technology standards and procedures. The program emphasizes forest ecology and silviculture, forest management, woods safety, forest land usage, forest protection, fish and wildlife

management, forest recreation, trends in urban forestry, and current and emerging environmental conservation issues. Students spend time outdoors in “land labs.” These labs enable students to participate in approved projects that put theory into practice. There are a number of different types of land labs from entrepreneurial endeavors to community service projects. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Graphic & Visual Communications

Amount of Credit: 3 credits per year

Description: This course is a two-year program based on current and future trends that incorporates practices in the graphic design industry. The program includes the basics of layout and design for all mediums. Students use state-of-the-art computers and digital equipment to create printed materials, videos, digital photography, computer animation and website designs. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Health Occupations

Amount of Credit: 2 year program, 3 credits per year

Description: State Curriculum: The first year of Health Occupations is a combination of two state curriculums, Health Occupations (CORE) and Nurse Assisting. The second year builds on skills in year one and stresses completion of Nurse Assisting Skills and the introduction of advanced care skills, medical assisting, phlebotomy, and EKGs. Purpose: The Health Occupations curriculum for secondary students is an overview of the Health Occupations program, which secondary students may plan to enter. It provides theory and skills related to the nurse assisting role and it acquaints students with general facts about other health occupations. Goal: Students will have the skills, knowledge, and professional demeanor to obtain employment in the health field, as well as enhance their leadership, communication, and management skills. Skills & Theory: The course consists of entry-level skills related to basic health care needs. It is designed to prepare students to render care in a variety of health care settings as a nurse assistant. The program builds on skills and theory acquired throughout Health Occupations core. In conjunction with supervised clinical experience, the course prepares students to be efficient and caring members of the health care team. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Heavy Equipment Operation and Maintenance

Amount of Credit: 3 credits per year

Description: A two-year program that trains students in the field of heavy equipment operation and maintenance or repair. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Machine Tool Technology

Amount of Credit: 3 credits per year

Description: A two-year program based on the National Institute for Metalworking Skills (NIMS) standards and related curriculum. Heavy emphasis on high tech equipment and precision in the machining of component parts. Students fabricate component parts to specification using milling, drilling, turning, grinding, and boring machines. Students learn career management, employee relations, teamwork, interpersonal relations, applied math, applied communication skills, and social skills. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Power Sports Technology

Amount of Credit: 2 year program, 3 credits per year

Description: Teaches fundamental repair, maintenance and operation skills on engines and equipment found in the recreation, construction, lawn and garden, and transportation industries. This is an EETC certified program and test site. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Service Level Hospitality & Human Services

Amount of Credit: 3 credits per year

Description: The Hospitality and Human Services - Service Level Program is designed to explore career clusters within the Health and Human Services field, as a vehicle to engage, interest, and prepare students for success at work, school, and in the community. We use these CTE trade areas as a vehicle to deliver soft skills curriculum and engage students in planning a career path. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Service Level Technical & Trade Services

Amount of Credit: 3 credits per year

Description: The Technical and Trade Services - Service Level Program is designed to explore career clusters within the Technical and Trade Services field, as a vehicle to engage, interest, and prepare students for success at work, school, and in the community. We use these CTE trade areas as a vehicle to deliver soft skills curriculum and engage students in planning a career path. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: Welding

Amount of Credit: 2 year program, 3 credits per year

Description: The Welding program is based on the American Welding Society (AWS) curriculum, which provides broad exposure to the operation, standards, and current practices in the field of

welding and fabrication. Students learn through classroom instruction, demonstrations, field trips, guest speakers, and hands-on practice of welding techniques. District application required. Applicants will be placed in a lottery for a seat in the program per WSWHE BOCES guidelines.

Course Name: New Visions Engineering

Amount of Credit: Math/Science – 1 credit each Integrated Academic Engineering - 2 credits

Description: Students are exposed to college level academic instruction in AP Calculus and AP Physics (c) and are given the opportunity to explore many fields of engineering through hands-on projects, site-visits, guest speakers and internship opportunities at local engineering companies. Application process required. Students selected for participation by WSWHE BOCES program staff.

Course Name: New Visions Health Careers Exploration

Amount of Credit: Students receive one credit each for anatomy & physiology, health careers exploration, English 12 honors, and one-half credit each for economics, and participation in government. Students will also have the opportunity to earn 3 college credits through SUNY Adirondack by taking BIO109 - Medical Terminology

Description: The program is an academically rigorous program for college-bound high school seniors who plan to major in pre-med or an allied health field. The program integrates coursework with observations in medical facilities. Application process required. Students selected for participation by WSWHE BOCES program staff.

Course Name: Early College Career Academy Electrical Technology/Advanced Manufacturing (Queensbury Campus)

Amount of Credit: varies

Description: A mix of college-level courses, job skills and technical education help train the “industrial athletes” of the future. BOCES educators and SUNY Adirondack professors work together in the Early College Career Academy to provide students a transdisciplinary environment that encompasses all learning styles and individual strengths. Curriculum includes: Computer-Aided Design (CAD), 3D Printing & Rapid Prototyping, CNC Machining/High Precision Technologies, Advanced Robotics & Automation, Control Systems, and Green Technologies & Advanced Materials. Application process required. Students selected for participation by WSWHE BOCES program staff.

Course Name: Early College Career Academy Information Technology/Computer Networking (Queensbury Campus)

Amount of Credit: varies

Description: Courses in Science, Technology, Engineering and Math (STEM) are taught by Cisco Systems trained SUNY Adirondack professors and BOCES educators through a

collaborative approach. Realizing that students all learn differently, this program devotes equal time to hands-on learning in state of the art labs and classroom instruction with provided computers and laptops. Curriculum includes: Computer Fundamentals, Network Fundamentals, Mobile Device Hardware & Software, Routing Protocols and Concepts, Scaling Networks, and Network Security. Application process required. Students selected for participation by WSWHE BOCES program staff.

Course Name: Early College Career Academy New Media (Queensbury Campus)

Amount of Credit: varies

Description: A mix of college-level courses, job skills and technical education help train the graphic and media artists of the future. BOCES educators and SUNY Adirondack professors work together in the Early College Career Academy to provide students a transdisciplinary environment that encompasses all learning styles and individual strengths. Curriculum includes: Introductory Photography, Graphic Arts, Web Design, Digital Prepress, Digital Video Editing, Mass Communications, Portfolio Development, and Advanced Media Workshop. Application process required. Students selected for participation by WSWHE BOCES program staff.

English Department

Course Name: English 6

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 6

Description: English 6 is based on the NYS Common Core Learning Standards and requirements to ensure that all students are college and career ready. The main goal is for students to get a complete experience in literature, writing, research, and speaking. Emphasis is on critical analysis of texts, while intertwining vocabulary, grammar, learning and reviewing the literary elements, evidence based writing, reading informational texts and independent reading assignments will accompany each central text.

Course Name: English 7

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 7

Description: English 7 is based on the NYS Common Core Learning Standards and requirements to ensure that all students are college and career ready. The main goal is for students to get a complete experience in literature, writing, research, and speaking. Emphasis is on critical analysis of texts, while intertwining vocabulary, grammar, literary element review, extensive evidence based writing, reading informational texts and independent reading assignments will accompany each central text.

Course Name: English 8

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 8

Description: Eighth Grade Language Arts is based on the NYS Common Core Standards to ensure that all students are college and career ready. It is designed to involve the student in applying reading, writing, listening, speaking, and viewing skills in an independent manner through meaningful interdisciplinary tasks. Students will continue to develop an appreciation for literature through the study of literary elements in classic and contemporary selections. Emphasis is placed on moving from the literal to the abstract in the students' critical thinking skills and in the use of language.

Course Name: English 9

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 9

Description: English 9 is designed on the NYS Common Core Standards to ensure that all students are college and career ready. Students will continue to work with classic and

contemporary literature to dissect an author's craft. Emphasis is placed on beginning to fine-tune students' critical thinking skills. It focuses on the five elements of the language arts: reading, writing, listening, speaking, and critical viewing. The students will be working with reading novels, excerpts, plays, short stories, poems, articles, or speeches and non-fiction texts.

Course Name: English 10:

Amount of Credit: 1 credit

Prerequisite: English 9

Description: General, Regents-track English course consisting of reading, writing, vocabulary, analysis, etc. in accordance with the New York State standards.

Course Name: English 11

Amount of Credit: 1 credit

Prerequisite: English 10

Description: General, Regents-track English course consisting of reading, writing, vocabulary, analysis, etc. in accordance with the New York State standards.

Course Name: English 12

Amount of Credit: 1 credit

Prerequisite: English 11

Description: English 12 has Common Core Learning Standards and requirements that are extensive. The main objective is for students to get a complete experience in literature, writing, research, and public speaking, while ensuring they have the skills needed to continue their education after high school. All facets of language arts – listening, speaking, reading, and writing will be covered, with a focus on higher-level critical analysis and critical thinking. English 12 will be divided into five main topics: College/Career Preparation, Classic American/British Literature, Modern Novels with important life lessons/themes, Independent Reading, Miscellaneous (Grammar, Interviews, Speeches, Public Speaking).

Course Name: Journalism

Amount of Credit: ½ credit

Prerequisite: N/A

Description: The main objective of the Journalism course will be to investigate how both the media and the news has the power to influence society. The class will be very hands-on and students will be transformed into reporters/writers, while informing their peers about world news, local news, and important news and events happening at Fort Ann Central School! Students will learn the importance of different stories - news, feature, sports, editorial writing, etc. They will also experience the internal process of newsrooms: investigating, interviewing skills, layout design, writing, editing, and presenting. The class will also study and analyze the history of journalism,

famous journalists, laws/ethics, and famous newspapers. The ultimate goal will be to create a school wide newspaper!!!!

Course Name: Harry Potter

Amount of Credit: ½ credit

Prerequisite: N/A

Description: This is an English-based elective course based in the genre of fantasy by exploring topics, themes, and issues brought about through the Harry Potter series. *There will be an extensive amount of reading (or rereading), as all seven of the Harry Potter books will be read and discussed in relation to each other as well as in relation to other works of literature and to life in general.* We will explore awareness of and appreciation for major themes and culture through an in-depth study of a variety of topics. This course will also address how the tale of Harry Potter contributes to our modern perspectives on moral life, race, mythology, politics, and religion through discussions such as (but not limited to):

1. social relationships and dynamics: friendships and families
2. good vs. evil
3. education and cooperation
4. the role of government and corruption
5. the role of death and love in the hero's journey

Course Name: Sports and Film

Amount of Credit: ½ credit

Prerequisite: N/A

Description: An Analysis of Sports and Society Elective

What is sport? What do we think we know about sport? Is it play? Leisure? Mere pastime? Through the use of sports films that are based on true stories, this course will draw upon sports as an important social institution. As a microcosm of society, sports can be looked at to study sociological processes. Through the use of several non-fiction based sports films, we will focus on concepts such as ethical issues, overcoming obstacles, stratification and inequality, discrimination, norms, violence, and social structure.

Course Name: Holocaust

Amount of Credit: ½ credit

Prerequisite: N/A

Description: Analyze texts, videos, pictures

Students will conduct an in-depth study of works that convey to readers and viewers from all angles the essence of what it was like to live in the time of The Holocaust and World War II. Students may also explore through research certain topics of interest around the globe during this time period.

Course Name: The Classics

Amount of Credit: ½ credit

Prerequisite: N/A

Description: Analyze texts, videos, pictures, documentaries, interviews and other first-hand accounts

An in-depth study of some of the most renowned writers in history and those works considered essential according to the canon literature list such as Chaucer, Homer, Shakespeare, Twain, Orwell, Steinbeck, and more.

Course Name: Introduction to College Writing (SUNY)

Amount of Credit: ½ credit

Prerequisite: Successful completion of English 11, 80% or better on ELA Regents exam

Description: Instruction and practice in the process of writing, including revision, careful analysis, and the sharing of each other's writing. Assignments may include reflection on experience, exposition, and interpretation of a text. Information literacy, in the form of research and documentation, will be presented. (English 102 through English 110). Prerequisite: ENG 090 and ENG 100A, or equivalent. This is a three credit college class.

Course Name: Writing in and about Literature (SUNY)

Amount of Credit: ½ credit

Prerequisite: A grade of C or better for ENG101

Description: A writing workshop in which students read from a diverse selection of short stories, poetry, essays and drama. Writing explores students' responses to critical questions raised by the readings and may include a reference paper examining the life and work of an author. This is a three credit college class.

Family & Consumer Science Department

Course Name: Home & Careers 6

Amount of Credit: 1 credit

Prerequisite: N/A

Description: Home and Career Skills is a course designed to help middle level students live in a society of constant change and to improve their quality of life by preparing them to meet their present and future responsibilities as family member and community members, consumers, home managers, and wage earners. The goal is to educate early adolescents to think constructively, make sound decisions, solve problems, and manage resources.

Home and Career Skills is the vehicle through which the New York State Intermediate Level Learning Standards for Family and Consumer Sciences are delivered. It also focuses on the New York State Intermediate Level Learning Standards in Career Development and Occupational Studies. The Home and Career Skills course affords students multiple opportunities to read, write, and compute in the context of real-world situations that are relevant to early adolescents.

Health & Physical Education Department

Course Name: Physical Education

Amount of Credit: ½ Credit, required of all students

Prerequisite: N/A

Description: The Fort Ann Middle School and High School Physical Education program is based upon the acquisition of knowledge and skills that are the foundation for engaging in physical activity. Our mission is to empower all students to sustain regular, lifelong physical activity as a foundation for a healthy, productive and fulfilling life.

The Fort Ann Middle School and High School Physical Education curriculum is a sequential educational program that introduces and develops students in a variety of team sports, individual sports, lifetime sports and personal fitness concepts. All students are encouraged to participate to the best of their ability in an active, caring, supportive and nonthreatening environment. Upon graduation, students will have necessary foundation for making informed decisions that will empower them to achieve and maintain an active and healthy lifestyle.

Course Name: Health 7

Amount of Credit: ½ credit

Prerequisite: N/A

Description: The objectives of this course are to provide students with an understanding of modern health concepts related to health promotion and disease prevention. Students will relate these concepts to their present and future needs so that they may achieve maximum personal, emotional, mental, and social well-being. Students will demonstrate the ability to practice health-enhancing behaviors and reduce health risks.

Course Name: High School Health

Amount of Credit: ½ credit

Prerequisite: Health 7

Description: The objectives of this course are to provide students with an understanding of modern health concepts related to health promotion and disease prevention. Students will relate these concepts to their present and future needs so that they may achieve maximum personal, emotional, mental, and social well-being. Students will demonstrate the ability to practice health-enhancing behaviors and reduce health risks.

Course Name: Sport Management

Amount of Credit: ½ credit

Prerequisite: High School Health

Description: Students are introduced to sport marketing, sport law, sport finance, sport media, sport ethics, recreational sport management and other related areas. There is an emphasis on developing and improving communication skills. An overview is provided with regard to career opportunities in this field.

LOTE (Language other than English) Department

The Foreign Language program focuses on communication. The development of listening, speaking, reading and writing skills is based upon useful situations in practical settings. Active class participation and responsible completion of assignments contribute to success. A minimum of one credit of foreign language is required for graduation. If the course credit and the final exam were not successfully passed in the middle school levels, an additional year of high school foreign language study is required.

Course Name: French/Spanish 7

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 7

Description: French/Spanish 7 is an introduction to foreign language with basic vocabulary and grammar structures and cultural awareness. Students will participate in activities that address all four communicative skill areas: listening, speaking, reading, and writing. This level serves as a good base for continuing into French/Spanish 1, which will end in a Proficiency exam for high school credit.

Course Name: French/Spanish 1

Amount of Credit: 1 credit

Prerequisite: French/Spanish 7

Description: French/Spanish 1 is a practical study of the French/Spanish language and culture that focuses on everyday life. French/Spanish 1 students participate in activities that address all four communicative skill areas: listening, speaking, reading and writing. With successful completion of the class and a passing grade on the Proficiency exam, 8th grade will receive high school credit. High school students will receive credit upon passing only the course.

Course Name: French/Spanish 2

Amount of Credit: 1 credit

Prerequisite: French/Spanish 8

Description: The continuing development and mastery of the four communicative skill areas - listening, speaking, reading and writing - is the primary focus of the level 2 curriculum. Students will use the language in a variety of practical situations as well as continuing to study the various cultures in which the target language is spoken. The present, preterit and imperfect tenses are studied.

Course Name: French/Spanish 3

Amount of Credit: 1 credit

Prerequisite: French/Spanish 2

Description: Students will continue to expand their grammatical and vocabulary base in an effort to better master communication in the target language. This course incorporates cultural studies relative to everyday life in the French or Spanish-speaking world. Successful completion of the course and final exam fulfills Checkpoint B for the Advanced Regents Diploma requirement.

Course Name: French/Spanish 4

Amount of Credit: 1 credit

Prerequisite: French/Spanish 3

Description: The curriculum focuses on mastering grammatical skills acquired in Level 3, with an additional student-focused emphasis on cultural exploration and meaningful oral communication. The focus is spoken language with relevant cultural themes such as food, travel, storytelling, film, and documentaries on current events. This course aims to prepare students for French 5/Spanish 5 (or *SUNY Intermediate).

Course Name: Intermediate French/Spanish (SUNY)

Amount of Credit: 1 credit

Prerequisite: French/Spanish 3

Description: The French 5/Spanish 5 (or *SUNY Intermediate) course focuses on active communication; it encompasses oral skills, reading comprehension, grammar and composition. To foster a sense of global awareness and preparedness, a variety of teaching strategies are used in this course, with emphasis on student-centered learning. Highlighting many cultural topics, class time will involve guided discussion, communicative activities and guided independent study. Some students will be provided with an opportunity to earn 3 credit hours from SUNY Adirondack, based on a minimum final average of 70% or higher. Transfer of credit varies from institution to institution.

*SUNY Intermediate may be offered to Spanish 5 students only

Math Department

Course Name: Math 6

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 6

Description: This course follows the Math 6 NYS Common Core Curriculum. The major topics covered in this course are: Operations and Algebraic Thinking, Ratios and Proportional Relationships, the Number System, Expressions and Equations, Geometry, and Statistics and Probability. The sixth graders are required to take the New York State Math 6 assessment in April or May.

Course Name: Math 6A

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 6, district recommendation

Description: Math 6A is a one year course that expands on the topics covered in fifth grade. Some of the topics that will be covered this year are: ratios and unit rates, arithmetic operations including dividing by a fraction, rational numbers, expressions and equations, area, surface area, and volume problems, and statistics. The students will be required to take the NYS Math 6 Test in May.

Course Name: Math 7

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 7

Description: This course follows the Math 7 NYS Common Core Curriculum. The major topics in this course are: Proportions and Unit Rate, Arithmetic Operations of the Rationals in Expressions, Equations and Inequalities, Percent, Probability and Geometry. The seventh graders are required to take the New York State Math 7 assessment in April or May.

Course Name: Math 7A

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 7, district recommendation

Description: Math 7A is a yearlong course that expands on the topics covered in sixth grade. Some of the topics that will be covered this year are: variables and equations, integer operations, solving equations/inequalities (one-step and multi-step), factors, fractions and exponents, rational number operations, ratios, proportions and percent, probability, area, volume, polynomials, functions, transformations, etc. The students will be required to take the NYS Math 7 Test.

Course Name: Math 8

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 8

Description: This course follows the Math 8 NYS Common Core Curriculum. The major topics covered in this course are: Integer Exponents, Scientific Notation, Congruence and Similarity, Linear Equations, Functions, and finally an introduction to irrational numbers. The eighth graders are required to take the New York State Math 8 assessment in April or May.

Course Name: Algebra 1 (1 year)

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 9

Description:Algebra I is a one year course that expands on the pre-algebra topics and includes 5 major units; relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations and functions, and a synthesis of modeling with equations and functions. The students will be required to take the Common Core Algebra I Regents exam at the end of the year.

Course Name: Algebra A (year 1 of 2)

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 9

Description:Algebra I Year A is one part of a two year course that expands on the pre-algebra topics and includes 5 major units; relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations and functions, and a synthesis of modeling with equations and functions. The students will be required to take the Common Core Algebra I Regents exam at the end of the second year (Algebra I Year B).

Course Name: Algebra B (year 2 of 2)

Amount of Credit: 1 credit

Prerequisite: Algebra A or Algebra I

Description:Algebra I Year B is one part of a two year course that expands on the pre-algebra topics and includes 5 major units; relationships between quantities and reasoning with equations and their graphs, descriptive statistics, linear and exponential functions, polynomial and quadratic expressions, equations and functions, and a synthesis of modeling with equations and functions. The students will be required to take the Common Core Algebra I Regents exam at the end of the year.

Course Name: Geometry

Amount of Credit: 1 credit

Prerequisite: Algebra I or Algebra B

Description: This course covers the Geometry Common Core Curriculum. The major topics include: Congruence, Proof and Constructions, Similarity, Proof and Trigonometry, Three-Dimensional Concepts, Coordinate Geometry, and Geometry of the Circle (with and without coordinates). Students in this class will be required to take Geometry Regents Exam (CCLS) in June.

Course Name: Algebra 2

Amount of Credit: 1 credit

Prerequisite: 75 or higher on the Algebra 1 exam and a 65 or higher on the Geometry exam

Description: This course will cover the Algebra 2 Common Core Curriculum. The major topics covered in this course are: Polynomials, Rationals, Radicals, Trigonometry, Functions, Probability and Statistics. Students in this class will be required to take the Algebra 2 Regents Exam in June.

Course Name: College and Career Ready Math

Amount of Credit: ½ credit

Prerequisite: minimum of 2 years of math

Description: This course is primarily for seniors to help prepare them for the Accuplacer Exam. It is predominantly a review of algebra and basic geometry concepts.

Course Name: Business Math

Amount of Credit: 1 credit

Prerequisite: none

Description: This course covers topics of Personal Finance: Net and Gross income, Recordkeeping, Savings and Checking accounts, Charge accounts and loans. And topics in Business Math: Personnel, Production, Purchasing, Sales and Marketing. Students in this class will be required to take a final exam at the end of the course.

Course Name: Applied Math

Amount of Credit: ½ credit

Prerequisite: none

Description: This course is designed as an alternative for the required third credit in Mathematics. Algebra, Geometry and Trigonometry topics are studied in the context of real-life applications. A combination of teacher prepared materials and textbooks will be used.

Course Name: Pre-Calculus (SUNY)

Amount of Credit: 1 credit

Prerequisite: Grade of "C" or above on Algebra 2

Description: This course is designed to prepare a student for Calculus I. Topics include solutions to equations; inequalities; algebraic, exponential, logarithmic, and trigonometric functions. This is a four credit college class.

Music Department

Course Name: Middle School Chorus

Amount of Credit: ½ credit

Prerequisite: N/A

Description: Learning and performing through singing various styles and genres of songs. Two required concerts per year, Winter and Spring. Learning proper techniques for singing and breathing skills. Learning how to sing with proper vowel formations, good diction, different languages at times, and with resonance and blend. Sight-reading skills are worked on. Active participation is needed to be successful.

Course Name: High School Chorus

Amount of Credit: ½ credit

Prerequisite: N/A

Description: Learning and performing through singing various styles and genres of songs. Two required concerts per year, Winter and Spring. Learning proper techniques for singing and breathing skills. Learning how to sing with proper vowel formations, good diction, different languages at times, and with resonance and blend. Sight-reading skills are worked on. Active participation is needed to be successful.

Course Name: Middle School Band

Amount of Credit: 1 credit

Prerequisite: Band lessons for all of 5th grade, at least one whole year of lessons before middle school

Description: Ensemble setting rehearsal. Requirements include but are not limited to concerts in December and May, and parades in the marching band. Lessons take place during the school day on a rotating weekly schedule..

Course Name: High School Band

Amount of Credit: 1 credit

Prerequisite: Middle School Band

Description: Ensemble setting rehearsal. Requirements include but are not limited to concerts in December and May, and parades in the marching band. Lessons take place during the school day on a rotating weekly schedule.

Course Name: Music In Our Lives

Amount of Credit: 1 credit

Prerequisite: none

Description: Exploring the history of music, composers, how music today came to be, musical time periods, Broadway musicals, and more. There are opportunities for hands on instrumental activities.

Course Name: Middle School Music (Grade 6)

Amount of Credit: ½ credit

Prerequisite: N/A

Description: The course is a music appreciation course in which students learn about music from various genres and time periods.

Science Department

Course Name: Regents Living Environment

Amount of Credit: 1 credit

Prerequisite: none

Description: The course emphasizes an in depth understanding of major concepts rather than memorization of science facts. Key topics covered include: Characteristics of Living Systems, Human Structure and Function, Genetics and Mechanism of Inheritance, Genetic Engineering, Variation Adaptation Evolution, Reproduction and Development, Energy Pathways, Disease and Homeostasis, Interdependence, Biotic and Abiotic Interactions, and Technology and the Environment.

Course Name: Regents Earth Science

Amount of Credit: 1 credit

Prerequisite: Living Environment

Description: This course will cover how the Earth works. We will be learning about rocks, minerals, plate tectonics, Earth's History, the solar system, stars, weather, seasons, and even some mapping skills.

Course Name: Regents Chemistry

Amount of Credit: 1 credit

Prerequisite: Living Environment, Earth Science, Regents Algebra

Description: The course emphasizes an in depth understanding of major concepts rather than memorization of science facts. Key topics covered include: Atomic Concepts, Periodic Table, Moles/Stoichiometry, Bonding, Physical Behavior of Matter, Kinetics/Equilibrium, Organic Chemistry, Oxidation-Reduction, Acids, Bases and Salts, and Nuclear Chemistry. Historical content, the scientific method, uncertainty in measurement, significant figures and SI units are included in the introduction of the core. In addition the material on the Chemistry Reference Tables is considered part of the core curriculum and is testable.

Course Name: Science 11

Amount of Credit: 1 credit

Prerequisite: Earth Science

Description: Throughout the year we will be covering topics such as motion, magnetism, forces, electricity, simple machines, energy and heat, light and sound, followed by some chemistry. After the basics of chemistry are covered, we will dive into food chemistry, followed by some non-fiction science literature, and learning how to write research papers.

Course Name: Regents Physics

Amount of Credit: 1 credit

Prerequisite: Chemistry

Description: The course emphasizes an in depth understanding of major concepts rather than memorization of science facts. Key topics covered include: Mechanics; Energy, Electricity and Magnetism; Waves; and Modern Physics. In addition the material on the Regents Physics Reference Tables is considered part of the curriculum and is testable.

Course Name: AP Biology

Amount of Credit: 1 credit

Prerequisite: passing grade on the Physical Chemistry and Living Environment Regents exams

Description: AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions.

The course is based on four Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about living organisms and biological systems. The following are Big Ideas:

- The process of evolution explains the diversity and unity of life.
- Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis.
- Living systems store, retrieve, transmit, and respond to information essential to life processes.
- Biological systems interact, and these systems and their interactions possess complex properties.

Course Name: Science 6

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 6

Description: Sixth grade science focuses on the Earth and Solar System. Students will learn how to think like scientists through explorations of rocks and minerals, weather and climate, astronomy and volcanoes and earthquakes.

Course Name: Science 7

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 7

Description: Seventh graders will explore their living environment with investigations into the world of cellular biology, genetics and heredity, evolution and ecology. Hands-on learning

experiences are designed to bring the microscopic world to life through in-depth investigations and experiments.

Course Name: Science 8

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 8

Description: Eighth graders will explore the physical and chemical worlds around them. The first half of the year will be dedicated to chemistry and the study of atoms, elements, compounds and chemical reactions. In the second half of the year students focus on the physics of motion and the science of energy.

Course Name: Environmental Science

Amount of Credit: 1 credit

Prerequisite: Earth Science

Description: Wonder how the different features of the Earth work together? Want to see the connections between Biology, Earth Science, and Engineering? These are some of the things that will be covered in the course this year. We will learn about how the humans have changed the Earth drastically, and what we can do to help correct the problems.

Social Studies Department

Course Name: Social Studies 6

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 6

Description: Students will learn about the Eastern Hemisphere, including geography and Ancient Civilizations.

Course Name: Social Studies 7

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 7

Description: Students will learn United States History from the time period of the first Americans through the Civil War.

Course Name: Social Studies 8

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 8

Description: Students will learn U.S. History from the Civil War to Present Day (1865-Present).

Course Name: Global History 9

Amount of Credit: 1 credit

Prerequisite: promotion to Grade 9

Description: Students will learn Global History from the time period of Nomadic People through the Age of Absolutism.

Course Name: Global History 10

Amount of Credit: 1 Credit

Prerequisite: Completed Global History 9 with 65 or better

Description: Students will learn Global History from the Age of Absolutism to the Present. Students will then take the Global History Regents exam at the end of the school year.

Course Name: U.S. History 11

Amount of Credit: 1 credit

Prerequisite: Completed Global History 10 with 65 or better

Description: Students will learn U.S. History from the first Americans to the present. Students will take a U.S. History Regents at the end of the school year.

Course Name: A.P. U.S. History 11

Amount of Credit: 1 credit

Prerequisite: Completed Global History 10 with 65 or better, pass Global History Regents Exam, & successful completion of summer assignment

Description: *From the College Board Website-* The AP U.S. History course focuses on developing students' understanding of American history from approximately 1491 to the present. The course has students investigate the content of U.S. history for significant events, individuals, developments, and processes in nine historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) that students explore throughout the course in order to make connections among historical developments in different times and places. U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course.

Course Name: Government 12

Amount of Credit: ½ credit

Prerequisite: Completed U.S. History 11 with a 65 or better

Description: Students will learn how the U.S. Government and Local Governments work. They will write a research paper on a chosen topic.

Course Name: Economics 12

Amount of Credit: ½ credit

Prerequisite: Completed U.S. History 11 with a 65 or better

Description: Students will learn different economic systems throughout the world. They will also get an introduction to Micro and Macro economics.

Introduction to Sociology (Syracuse University)

Amount of Credit: ½ credit

Prerequisite: Completed U.S. History 11 with a 85 or better is recommended

Description: Sociology is an expanding field used by those who craft public policies and programs. In this course, you'll look at human interaction in a wide range of situations, from the intimate family to the hostile mob; from organized crime to religious cults; and from the divisions of race, gender, and social class to the shared beliefs of a common culture.

You'll learn how to take a disciplined view of social inequality, discover the forces behind social change and resistance, and see how social systems work. Few fields have such a broad scope and relevance for research, theory, and the application of knowledge. This is a three credit college class.

Course Name: Economics Ideas and Issues (Syracuse University)

Amount of Credit: ½ credit

Prerequisite: Completed U.S. History 11 with a 85 or better is recommended

Description: How and why we make choices—and the consequences of them—is the subject of ECN 203.

This course examines Western economic thought by starting with a one-person society and asks how this person makes choices, especially when other individuals are introduced and resources become scarce. Our journey leads us to the complex, industrialized society we live in today. This is a three credit college class.

In ECN 203 you will ...

- Learn how micro and macro economic theory affects our personal lives.
- Investigate the role governments play in creating and solving global economic challenges.
- Become a more engaged citizen by gaining a better understanding of financial policy.

Technology Department

Course Name: Technology 8

Amount of Credit: 1 credit

Prerequisite: none

Description: This introductory course to technology introduces students to a variety of kinds of technology through hands on and computer based projects, including the history of technology, engineering design, communication, programming, electricity and electronics, alternative energy, manufacturing, construction, and robotics.

Course Name: Design and Drawing

Amount of Credit: 1 credit

Prerequisite: 8th Grade Technology

Description: This course focuses on teaching the students the design process through projects that are both hands on and computer based. Students work through projects that require them to define the problem, identify criteria and constraints, perform research, brainstorm, develop a working prototype, and test and evaluate to make any necessary changes to their project in order to successfully solve the problem.

Course Name: Career and Financial Management

Amount of Credit: 1 credit

Prerequisite: none

Description: This course is meant to give students a real life experience in finding, applying for, and keeping a job as well as managing the money they make. Students will learn the importance of earning, saving, and investing. Students will also be exposed to starting their own fake business.

Course Name: Creativity and Innovation

Amount of Credit: ½ credit

Prerequisite: Design and Drawing

Description: This class is meant to encourage students to think creatively and design new and innovative objects that they make into a reality. Students will have to use the design process and come up with a design proposal in order to have their ideas “green lighted” before they can begin working.

Course Name: Materials Processing

Amount of Credit: ½ credit

Prerequisite: none

Description: This is a traditional shop class where students will learn the basics of working with wood, as well as how to process other materials.

Course Name: Programming and Lego Robotics

Amount of Credit: 1 credit

Prerequisite: none

Description: This course will introduce students to the basic concepts of programming and how programming applies to robotics. Students will also learn the basic parts and functions of a robot and how to build and program a robot using various sensors/motors.

Visual Arts Department

Course Name: Studio Art (Foundation)

Amount of Credit: 1 credit

Prerequisite: N/A

Description: Make connections between visual arts and other disciplines. Gain knowledge in visual arts through experiences in different media areas. Recognize and apply different techniques used with different visual art media and will study and respond to the visual arts from different sources. Sketchbooks/Journals are used. The sketchbook will contain visual and written entries, which will include responses and reflections.

Media skills and concepts:

Students will experience a variety of methods, processes, and media in two and three dimensional art forms: Drawing, Painting, Sculpture, Applied Arts - Craft Media (ceramics, jewelry, fibers) Graphic Design and Illustration, Printmaking, Camera Arts and Digital Media

Course Name: Studio in Photography & Media Arts

Amount of Credit: 1 credit

Prerequisite: Studio Art (Foundation)

Description: Studio Photography & Media Art

This course combines traditional drawing & painting with a variety of digital art and photography projects. Students will discover tips for taking photographs, while learning strategies to manipulate their photos in digital art programs. Students will observe a variety of digital artists and photographers. At the end of this course, students will gain a deeper understanding of contemporary digital art. Sketchbooks/Journals are used. The sketchbook will contain visual and written entries, which will include responses and reflections.

Students are required to purchase a USB flash drive with at least 1 GB of memory to save all documents, photos, and digital artworks as well as an SD Card for the camera. The school does have a few digital cameras for students to borrow however; students are encouraged to bring their own and are responsible for any damage that might occur to school equipment.

Course Name: Digital Photography

Amount of Credit: ½ credit

Prerequisite: N/A

Description: This course is designed to give students a basic understanding of how to use a camera and apply Photoshop to perform many different image-processing techniques. Adobe Photoshop is an industry standard for graphic design, digital photography, web design, digital

video editing, and even creating animations. Students will produce and will be assessed on many projects as well as developing and critiquing portfolios. Through project work, students will learn how to use several tools for selecting parts of images, retouching, layers, special filters, painting, digital photography and animation. Students are required to purchase a USB flash drive with at least 1 GB of memory to save all documents, photos, and digital artworks as well as an SD Card for the camera. The school does have a few digital cameras for students to borrow however; students are encouraged to bring their own and are responsible for any damage that might occur to school equipment.

Course Name: Art 7

Amount of Credit: ½ credit

Prerequisite: N/A

Description: A course that provides an introduction to art through a multi-media experience. Students will learn and apply the elements and principles of design to produce creative art projects that reflect their understanding of these concepts.

Virtual High School (VHS) Courses

The Virtual High School (VHS, Inc.) is a non-profit organization dedicated to increasing educational opportunities for middle and high school students, educators, and schools - everywhere.

Through The Virtual High School's unique network, students, educators, and parents gain access to student-centered online education within a high quality, collaborative learning environment.

Students learn in cohorts where student exchange and interaction are valued components of the instructional process. Students benefit from access to highly-qualified faculty and innovative curriculum within diverse global classrooms.

Fort Ann Central School invites students in grades 10-12 to choose electives or Advanced Placement courses that the district would otherwise be unable to offer. Students can register for up to two courses each semester (Fall/Spring).

Students may view the Virtual High School course catalog online:

<https://my.vhslearning.org/PublicStudentCourseList.aspx>