Sauquoit Valley High School
Course Catalog

Click on a department for course descriptions.

Art

Studio Art (1 credit) - Open enrollment to all students 9-12. This course is a prerequisite for drawing and painting, advanced studio, and independent study. This course satisfies the NYS graduation requirement for one credit in the arts. Concentration is on the elements of art and the principles of design along with learning the basics of art criticism. In addition to this, students study media, explore the creative process, techniques and art appreciation. Weekly sketch book assignments are required. Enrollment limited to 20 per class.

Drawing and Painting (1 credit) - This course provides a more in depth study of drawing techniques and the painting media. Students are required to draw on a daily basis and are given specific assignments, which allow them to explore the media and process of painting. In addition to this, they study the history of painting from the caveman to present. Weekly sketchbooks are required. Class limited to 20. *Prerequisite: Successful completion of Studio Art*

Dual Credit Advanced Studio Art – MVCC FA 101 (1 HS credit; 3 college credits) - This course is for those who want to continue their study of the arts and complete an art sequence. This course focuses on studying the masters along with mastering a chosen media. In the later part of the course, students are encouraged and guided to develop their own personal style and approach to art. The students are able to choose much of their own media and design many of their own projects. Sketchbooks are a requirement and graded. *Prerequisites: Successful completion of Studio Art and Drawing and Painting*

Clay and Ceramics (½ credit) - The course studies clay bodies, glazes/under glazes, methods, and techniques along with throwing on the wheel. *Prerequisite: Successful completion of Studio Art*

Photography (½ credit) - This course introduces students to concepts and techniques in creating quality images by manually controlling exposure, focus, and light. Students will learn photography's history by studying photographers and early processes as well as modern digital technologies. Images will be created using digital cameras with emphasis on creating the highest quality with a camera. Projects will range from "real world" assignments to artistic in nature. Students will be encouraged to create photographs with both artistic and technical merit. The class will explore career opportunities for photographers as well. A digital camera with manual settings/controls (M) is recommended but not required. Qualifies for Art Sequence credit. *Prerequisite: Successful completion of Studio Art*

Senior Portfolio (1 credit) - This course concentrates on creating an Art Portfolio showing a variety of media, refined technique and presentation. Students may use this portfolio for application to college, whether majoring in art or not. It can be taken as an independent study at teacher's discretion if class is not offered. *Prerequisite: Open to seniors who have completed Advanced Studio Art*

Business

Dual Credit Personal Finance – MVCC BM 108 (½ HS credit; 3 college credits) - This course teaches the fundamentals of personal finance. Students learn how to create a financial plan, manage personal finances and reach personal financial goals. Topics include: establishment of financial objectives (home ownership, education, and retirement), budgeting and savings, personal income tax, investments (stocks, bonds, and mutual funds), insurance, retirement and estate planning. The effective management of credit is also covered.

Dual Credit Principles of Marketing – MVCC BM 120 (½ HS credit; 3 college credits) - This course emphasizes the basic practices, concepts, and activities involved in developing a successful marketing program. Areas of study include: buyer behavior, market identification, product development, distribution, promotion, pricing and the uncontrollable factors (economic, social, political, legal and technologic) that are involved in today's changing marketing environment. Students will be evaluated on the basis of exams, case studies and other assignments.

English Language Arts

English Language Arts 9 (1 credit) - The English Language Arts 9 course will emphasize the basic literacy skills of reading, writing, listening, and speaking, with a concentration on analysis and argument. Literature is studied through the lens of essential questions, and includes an introduction to the Shakespearean drama, poetry, a variety of short stories, and fiction and non-fiction texts. The writing process is emphasized, with the steps of planning, drafting, and revising modeled for students. Vocabulary and grammar are studied in context, and organization and study skills are integrated into units.

English Language Arts 9 Honors (1 credit) - English Language Arts 9 Honors follows the English Language Arts 9 curriculum with additional readings, accelerated writing, and a greater emphasis on analysis and argument. Literature is studied through the lens of essential questions, and includes an introduction to the Shakespearean drama, poetry, a variety of short stories, and fiction and non-fiction texts. The writing process is emphasized, with the steps of planning, drafting, and revising modeled for students. Students in honors English will be challenged to reflect on their writing abilities and improve their voice through sentence structure, diction, and figurative language. Vocabulary and grammar are studied in context, and organization and study skills are integrated into units.

English Language Arts 10 (1 credit) - The English Language Arts 10 course will expand on the work done in the ninth grade. Improvement in the areas of reading, writing, listening, analysis, argument, and critical thinking will be fostered through the work accomplished in the writing process. Essential questions will guide students through each unit where they will be exposed to a variety of texts including Shakespeare, podcasts, science fiction, and historical fiction. Students will conduct research throughout the course through the use of media technology.

Pre-Advanced Placement English Language Arts 10 (1 credit) - This course is designed to work on developing rhetorical analysis, writing skills, close-reads and a wide variety of non-fiction elements. The purpose is to develop advanced skills needed for AP Language and AP Literature - as well as higher level reading and writing skills for college. There will also be speaking and group work.

English Language Arts 11 (1 credit) - This program is designed to develop skills in listening, reading, speaking and writing. An emphasis is also placed on fostering a greater understanding and enjoyment of literature. Vocabulary development and writing clarity are stressed throughout the program. Typical works studied include Shakespearean plays, a variety of modern literature and Nonfiction.

Advanced Placement English Language & Composition (1 HS credit; college credit depending on AP Exam score) - This course is set up in 8 units approved by the College Board to scaffold development of analysis and composition skills through nonfiction pieces. The rhetorical situation, claims and evidence, reasoning and organization and style are focused on throughout the course. This is considered a college class and the materials will be advanced.

English Language Arts 12 (1 credit) - This final English credit varies from year to year, depending on enrollment. Students can expect choices, often independently reading your own selected content and creating projects and reader responses. We will sometimes read whole class novels or other works together. Students will complete a final research project focused on their own topic, making note-cards for sources and showcasing their findings in a project.

Dual Credit English 12 — MVCC EN 101 & 102 (1 HS credit; 6 college credits) - Successful completion of this course will earn students 6 college credits through MVCC and exemption from traditional college EN 101 and EN 102 courses. This course focuses on several kinds of writing and emphasizes the composition of clear, correct, and effective prose required in a variety of professions and certainly in the collegiate classroom. Students will write a variety of paper types, including the personal college application essay, limited to 650 words; Descriptive and Narrative Papers, each 3-5 pages long; and an extended research project investigated their own inquiry questions, including written note-cards on a variety of annotated, reputable sources, and culminating in an 8-10 page paper. An essential component of each of these paper types is integrating varied sentence structure through a variety of grammatical constructions known as the tried and true "Sentence Variety" numbered packet. The literature analysis portion of the course encourages a deeper understanding of human nature and the human condition through the study of ideas and values in literature. Emphasis is placed on the use and development of critical thinking skills. Students can expect choice and designated class time to read their own literary selections. They will analyze the literary elements of their work and offer their personal responses through a variety of formats. *Prerequisite: Minimum cumulative GPA of 80*

Advanced Placement English Literature & Composition (1 HS credit; college credit depending on AP Exam score) - This is a college-level literature class that culminates in the College Board AP Lit. & Comp. exam in early May. Your presence means that you are prepared to complete a rigorous workload, attend class regularly, and dedicate extra effort outside of class when you need additional support. Our school's AP English Literature curriculum is organized thematically and includes a variety of drama, novels, and poetry. Literature pieces vary slightly from year to year, but one thing that will remain consistent is the practice of reading carefully and purposefully. We will prepare for the AP exam with timed multiple choice reading comprehension questions, vocabulary study in context, including Greek and Latin root assignments, and timed past AP exam close reading and literary analysis essays. The College Board describes our course as: "the careful reading and critical analysis of imaginative literature... Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Students will read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. Writing is an integral part of the course and exam and focus on the critical analysis of literature. The goal of writing is to explain clearly, even elegantly, what they understand about literary works and why they interpret them as they do."

Media Literacy, Evaluation, and Ethical Creation (1/2 credit) - Information is everywhere! Now, more than ever, we need strong critical thinking and analysis skills to help us navigate the flood of news, posts, messages, and media we see every day. Media literacy is the ability to read, analyze, evaluate and respond thoughtfully to digital media messages. Students in today's media rich and techno-centric world need to be critical consumers of digital and social media, as well as responsible & ethical media creators. In this class, students will learn to deconstruct media messages, looking at how they are purposefully put together to better understand and control their impact and influence on others. As part of that, students will become skilled fact-checkers, learning to analyze, evaluate and investigate the claims and content in media messages. We will also incorporate public speaking and presentation skills, as well as an introduction to the basics of ethical, responsible and effective news reporting, media creation and journalism.

Family & Consumer Science

Child Psychology (1 credit) - This course is designed to provide students with the understanding of the following topics: personality development, theories of development, contemporary issues facing children and adolescents, youth and the media, expectations of society on youth, the impact of family and community on development. Students will learn about child development (physical, emotional, social and intellectual) from birth to adulthood.

Foods and Nutrition (1 credit) - This course is designed to help students become familiar with all aspects of working with food safely. Students will learn about careers related to food, basic nutrition principles, food purchasing, preparation and storage. Students will have hands-on cooking experiences making cookies, quick and yeast breads, eggs, dairy products, grains, poultry, meats, fruits and vegetables. Students will be able to leave the classroom with prepared food they have created themselves. This course provides students with skills needed to continue to cook on their own.

Advanced Food Preparation (1 credit) - This course builds upon the fundamentals presented in Food and Nutrition with emphasis on creativity and professionalism in meal planning, service, entertaining, entrepreneurship, cultural food, and gourmet cooking. This course is offered to students with proven interest in advanced cooking methods, and will be expected to demonstrate resource management in relationship to meal planning. Students will be expected to taste the foods they prepare, as well as taste for adding seasonings. *Prerequisite: Successful completion of Foods and Nutrition*

Food Science (1 credit) – In Food Science, students learn about the production, processing, preparation, evaluation and uses of food. This course integrates principles of biology, chemistry, and microbiology in the context of food and the food industry. Students will learn about nutrition, composition of food and functions of ingredients, food development, food safety and sanitation, food packaging, and food storage. Learning will involve hands-on experiences in order to encourage application to real life situations. Students will evaluate foods using sensory characteristics. This course can be used as the third required science course for graduation eligibility.

Health & Physical Education

Health Education (½ credit) - The health course offers a comprehensive study of critical areas of today's health problems. These areas include body systems, mental health, nutrition, problems of smoking, alcohol and drug abuse, disease prevention and control, consumer education, family life education, human ecology, public health protection, accident prevention and basic first aid procedures. The intent throughout this course is to stimulate thought and general discussion so health can have a more personal meaning to each student.

Physical Education (½ credit) – Classes are designed to help students develop the skills needed to participate in a wide variety of sports and movement activities. Lessons are planned with an emphasis on life-long activities and fitness to prepare students to lead an active healthy lifestyle as adults. Success in physical education class is based on physical participation and attitude.

Personal Fitness (½ credit) - This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques. Students will learn the lifelong fundamentals of strength training, aerobic training, and overall fitness training and conditioning. There will be an emphasis on strength training utilizing dumbbells, barbells and resistance bands. This is a participation based class and does not take the place of traditional physical education class. *Prerequisite: Open to students in grades 10-12 who have an 85 or higher average in physical education class*

Mathematics

Pre-Algebra (1 credit) - A first year high school mathematics course covering a review of fundamental arithmetic skills; operations with decimals; percents and fractions; ratio and proportion; introduction to probability and statistics; operations with integers; and an introduction to geometry. In addition, students will learn to work with algebraic expressions and equations. This course is designed to improve basic skills before beginning Algebra I.

Algebra I (1 credit) - Algebra I is designed to be the first mathematics course in high school and the focal point is functions; specifically linear, quadratic, and exponential functions. In Algebra I, students analyze and explain precisely the process of solving an equation. Students, through reasoning, develop fluency writing, interpreting, and translating between various forms of linear equations and inequalities and make conjectures about the form that a linear equation might take in a solution to a problem. They reason abstractly and quantitatively by choosing and interpreting units in the context of creating equations in two variables to represent relationships between quantities. They master the solution of linear equations and apply related solution techniques and the properties of exponents to the creation and solution of simple exponential equations. Students will sit for a NYS Regents Examination at the end of this course.

Geometry (1 credit) - Geometry is intended to be the second course in mathematics for high school students. During high school, students begin to formalize their geometry experiences from elementary and middle school, using more precise definitions to establish the validity of geometric conjectures through deduction, proof, or mathematical arguments. Students develop an understanding of the attributes and relationships of two- and three-dimensional geometric shapes that can be applied in diverse contexts. Students will sit for a NYS Regents Examination at the end of this course.

Algebra II (1 credit) - Algebra II is the capstone course of the three high school mathematics courses and is a continuation and extension of the two courses that precede it. Building on their work with linear, quadratic, and exponential functions in Algebra I, students in Algebra II extend their repertoire of functions to include polynomial, rational, radical, and trigonometric functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers, and solving exponential equations using the properties of logarithms Students will sit for a NYS Regents Examination at the end of this course, and passing the exam is a requirement of the Advanced Regents Diploma. *Prerequisite: Successful completion of Algebra I*

Non-Regents Algebra II (1 credit) - is a course that can be taken as a student's 3rd year of math for their graduation requirement. This course is a continuation and extension of the two courses that preceded it (Algebra & Geometry), with an emphasis on higher level algebraic techniques. Within this course, the number system will be extended to include imaginary and complex numbers and we will study families of functions including polynomials, absolute value, radical, trigonometric, exponential, and logarithmic. The study of trigonometry will be expanded to include the investigation of periodic functions and their graphs. There is no Regents Exam at the end of this course however there will be a midterm and final.

Dual Credit Intermediate Math – MVCC MA 115 (½ HS credit; 4 college credits) - This course introduces intermediate algebra-level knowledge and skills. Topics include exponents and radicals, polynomial and rational expressions, functions and relations and their graphs, inequalities, and systems of linear equations. Linear, quadratic, rational, and radical equations are solved. *Prerequisite: Successful completion of Algebra I*

Dual Credit Statistics – MVCC MA 110 (½ HS credit; 3 college credits) - This course introduces probability and statistics. Topics include graphs, tables, frequency distributions, measures of central tendency and dispersion, normal distribution, correlation and regression, probability, and inferential statistics. This course covers a wide array of statistical topics, which build upon each other. It is therefore important to become skilled in each of the topics as they are presented to allow understanding of subsequent topics. *Prerequisite: Successful completion of Algebra I*

Dual Credit Pre-Calculus – MVCC MA 150 (1 HS credit; 4 college credits) - This course is a very comprehensive course including topics such as: advanced algebra, finding roots of an equation, advanced trigonometry, natural logarithms, and data collection. The course constantly integrates the graphing calculator. *Prerequisite: Successful completion of Algebra II*

Advanced Placement/Dual Credit Calculus AB – MVCC MA 151 (1 HS credit; 4 college credits) - This curriculum is a course sponsored by the College Board. Topics include: limits, derivatives, curve sketching, related rates, integrals, area under a curve, volume of a solid, differential equations, and rectilinear motion. The course covers the entire first semester of college calculus and approximately two-thirds of the second semester of college calculus. The students will be prepared to take an Advanced Placement exam offered by the College Board and may receive college credit for calculus. An acceleration program in mathematics will enable the student who is pursuing a Regents diploma with distinction, the opportunity to pursue a 5 unit sequence in mathematics. The 5 units in mathematics sequence will begin with Algebra in Grade 8. *Prerequisite: Successful completion of Pre-Calculus*

Consumer Math (1 credit) - This course is intended to give students a base knowledge of how money works and how it will affect their adult lives. Topics include (but are not limited to) calculating paychecks, payroll taxes, budgeting, bank accounts, consumer spending, credit cards, automobile expenses, and housing expenses. There is no prerequisite, but students should be familiar with the basics of middle-grade math (addition/subtraction/multiplication/division, fractions, decimals, percents, exponents).

Applied Mathematics (1 credit) – This is a full year course that focuses on real world applications of mathematics, particularly in the field of geometry.

Accounting (1 credit) - This is a full year course that concentrates on the generally accepted accounting principles (GAAP) applied to a service business set up as a proprietorship and a merchandising business set up as a partnership. Topics include: analyzing, journalizing and posting transactions, adjusting entries, completion of the work sheet, financial statements, and the closing process, accounting for cash, payroll accounting and the special journals are also covered.

Miscellaneous

Academic Intervention Service - Academic Intervention Service (AIS) is an opportunity for students to receive individualized, supplemental support in one or more content areas. Students are enrolled in AIS based on their course grades. Student and parent requests for AIS may also be made.

Freshmen Seminar (½ credit) - is designed to help 9th graders navigate through high school as well as planning for their future beyond high school. This course provides a skill set to students so that they are equipped to manage expectations through high school and then in the working world and college. The Freshman Seminar teachers support students to help them manage the academic rigor and social issues that they will encounter in their lives. Students will learn life skills, study and organizational skills, time management, and communication skills in order to achieve academic and personal success. Additionally, this course addresses the social and emotional issues that teens deal with and how to respond to situations in a responsible manner. This class promotes a positive mind set, perseverance and grit to enhance educational success.

Senior Seminar (½ credit) - This elective seminar is meant to support students through the transition from senior year to post-secondary education. They will receive guidance through the college application process, create a resume, write the college essay, research scholarships, practice their interview skills, and prepare for adult living responsibilities, including financial literacy, along participating in various field trips and guest presenter opportunities.

Dual Credit Psychology – MVCC PY 101 (½ HS credit; 3 college credits) - This course introduces the many and varied facets of psychology. Emphasis is on interactions of individuals in their cultural, social, and economic environments as determined by their cognitive, behavioral, and emotional experiences and training. Here at Sauquoit Valley, this course is offered via Distance Learning.

Dual Credit Sociology – MVCC SO 101 (½ HS credit; 3 college credits) - This course gives an understanding of and a feeling for the society in which we live. The concepts and theories discussed relate to humanity, its culture and society, and to those forces that contribute to the smooth operation of this society as well as those forces that contribute to conflict and social problems. Topics include culture, socialization, stratification, population, and patterns of social organization. Here at Sauquoit Valley, this course is offered via Distance Learning.

Music

Concert Choir (½ credit or 1 credit) - Concert choir is open to any student in grades 9-12.The student must be willing to actively participate in rehearsals and performances. No audition is required. The choir presents three concerts a year, with trips outside the school for additional performances. A smaller group, the Chamber Choir, is selected by audition from the full choir. Chamber Choir rehearsals are held after school. Students who are scheduled for choir rehearsals every day receive 1 academic credit per year. Students scheduled for rehearsal 3 days per week receive ½ credit. In certain cases, with permission of the instructor, a student may audit the course if he or she wishes to participate but cannot schedule the course.

Band (½ credit or 1 credit) - Concert band is open to any student in grades 9-12 who plays a band instrument. Students coming from the middle school must have been members of the Junior Band in order to sign up for Concert Band. Students are required to attend band lessons throughout the year in order to receive credit. The Concert Band performs in four concerts throughout the year (Winter, Pops, Spring & Graduation). Other performances, assemblies and field trips may be arranged.

Jazz Ensemble I - All members of the Jazz Ensemble must be involved in one of the other instrumental concert bands. (Exceptions will be made only in the case of guitar, bass or piano as these are instruments not normally found in concert band.) Jazz I rehearses once a week at a time to be determined. They perform in several concerts, assemblies, etc. throughout the year. *Prerequisite: Successful audition*

Jazz Ensemble II - Any instrumental music student may be a member of Jazz II. *Prerequisite: Successful audition*

Dual Credit Intro to Theater – MVCC TH 193 (½ credit; 3 college credits) - This course will contain a variety of drama related topics including history, set design, and costumes. Students will work on their improvisation skills as well as general acting skills. This will be an active class and will work toward performances of monologues, duo, and small group scenes. The class enrollment is limited to 20 students.

Dual Credit Music Theory I – MVCC HU 183 (½ credit; 3 college credits) - Music theory is a half year, 1/2 credit course that aims to develop and mature students' understanding of the way music works. This curriculum was designed to follow the state requirements for Regents designation and will help students develop their music skills through, critical listening, analysis, and composition. The course will focus on the principles of Western Tonal Harmony (European and American) and will help develop students' creative and critical thinking skills through recognizing the themes and various patterns that exist in all Western music (i.e., Classical, Romantic, 20th Century, Modern Rock). Students will be expected to complete course work, as well as unit exams. Instruction will be assisted by use of Textbook and various listening exercises. Although there are no requirements to enroll in the course as we will begin at the beginning, students should possess a basic understanding of the musical staff and basic rhythms from elementary and middle music classes (i.e., music, choir, band).

Dual Credit Music Appreciation – MVCC HU 186 (½ HS credit; 3 college credits) - Students may receive college credit and/or local Sauquoit credit. This course develops musical perception, understanding, and appreciation. It is appropriate for those with no formal musical training. This course provides an introduction to musical styles and forms through listening. It is based on the premise that repeated listening leads to a greater understanding and a more rewarding experience of music. Through use of the listening charts in the text, discussion in class, and additional readings,

students will develop a deeper appreciation and awareness of the similarities and differences that make-up the music of our cultural identity both locally and globally.

Science

Laboratory Requirements: The student must complete a minimum of 1200 minutes of laboratory activities and shall prepare a written report verifying this work for admittance into the Regents Examination. The instructor may require more laboratory time than the minimum for better preparation for the Regents Exam.

High School Science Course Policy: The high school science department feels very strongly that all 4 core Regents sciences are essential as a base for all future college or AP science courses. Therefore, we require that the four Regents sequence courses (Life Science: Biology, Earth and Space Science, Chemistry, and Physics) must be completed before taking any AP science classes at Sauquoit. Students up to the challenge may take their 4th Regents science in conjunction with an AP science course with departmental consent.

Pre-Biology (1 credit) - This introductory science course is designed to build essential scientific literacy and mathematical skills crucial for success in subsequent high school science Regents courses, particularly Life Science: Biology. Students will engage with fundamental concepts of scientific inquiry, including observation, data collection, analysis, and communication. Through problem-solving, students will explore foundational topics such as the characteristics of living things, photosynthesis and respiration, feedback mechanisms and homeostasis, basic ecological relationships, and Earth systems. Emphasis is placed on developing scientific reasoning and critical thinking skills as outlined by the New York State Science Learning Standards. This course provides a strong foundation for understanding the complex topics covered in Life Science: Biology and Earth and Space Science.

Life Science: Biology (1 credit) - This course provides a comprehensive exploration of the fundamental principles of living systems. Students will develop a deep understanding of core biological concepts through the lens of scientific and engineering practices and crosscutting concepts. Topics include, but are not limited to: the structure and function of cells, energy and matter in biological systems (photosynthesis and cellular respiration), genetics and heredity, molecular biology, mechanisms of evolution and natural selection, ecology, and the interdependence of organisms and ecosystems. Emphasis is placed on inquiry-based laboratory investigations, data analysis, model development, and scientific argumentation. Students must complete a minimum of 1200 minutes of hands-on laboratory experiences, including mandated state laboratory investigations, to be eligible to take the New York State Life Science: Biology Regents Examination at the conclusion of the course.

Earth and Space Science (1 credit) - This Regents-level course delves into the dynamic processes and vast scales of Earth and the Universe. Students will explore how Earth's systems interact through the study of geology, meteorology, oceanography, and astronomy. Key topics include: Earth's formation and history, plate tectonics, rock and mineral cycles, weather and climate patterns, ocean currents, the solar system, stars, galaxies, and the expanding universe. The course emphasizes scientific and engineering practices, encouraging students to analyze data, develop models, construct explanations, and engage in evidence-based argumentation about Earth and Space phenomena. A minimum of 1200 minutes of hands-on laboratory experiences, including mandated state laboratory investigations, are required to be eligible to take the New York State Earth and Space Science Regents Examination at the conclusion of the course.

Physical Setting - Chemistry (1 credit) - Chemistry is concerned with the structure and composition of matter and the changes it undergoes. Specific areas covered are atomic structure, types of reactions, ionization and acid-base theory, bonding, chemical kinetics and equilibrium, oxidation-reduction, and organic chemistry.

Physical Setting - Physics (1 credit) - The study of physics, one of the oldest branches of study in the world, is all about how objects move and interact. In this course, we will begin by focusing on the motion of objects in our everyday lives. After this, we will discuss electricity and magnetism and its applications. From there, we will begin to talk about wave phenomena and their relation to our lives before finally moving on to modern physics. This is the newest field of physics and has been the area of most experimentation and research over the past century. Laboratory activities in class will complement the material that we are learning. *Prerequisites: Successful completion of or concurrent enrollment in Chemistry, successful completion of Geometry*

Advanced Placement Physics 1 (1 HS credit; college credit depending on AP Exam score) - This advanced study of physics covers the topics most commonly seen in a first-year, first-semester college physics class, including kinematics, dynamics, circular and rotational motion, momentum, energy, simple harmonic motion, and gravitation. A successful score on the College Board's AP Physics 1 test at the end of the year may result in the awarding of credit at some colleges. The class has a conceptual focus, but this is backed up by more advanced mathematics than is seen in the Regents Physics class. Laboratory activities in class will complement the material that we are learning. While there is no prerequisite for the course, it is recommended that students wishing to take AP Physics 1 have already taken Regents Chemistry and are at least concurrently enrolled in Pre-Calculus.

Advanced Placement/Dual Credit Biology – TCCC BIOL 104 & 105 (1 HS credit; 8 college credits) - The AP Biology course emphasizes two major goals:1) to enable students to develop a real understanding of the principal concepts in Biology, and 2) to experience science as a process of problem solving and discovery. The course is divided into eight major themes; 1) science as a process, 2) evolution, 3) energy transfer, 4) continuity and change, 5)relationship of structure to function, 6) regulation, 7) interdependence in nature, 8) science, technology, and society. Also there are 12 required labs based on the course work. The AP Examination in Biology is offered in May for this course. The test emphasizes both lecture material and the 12 labs. *Prerequisites: Successful completion of the four Regents Science courses.*

Advanced Placement/Dual Credit Chemistry – TCCC CHEM 107 & 108 (1 HS credit; 8 college credits) - is the equivalent of the general chemistry course usually taken during the first college year. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. This course should contribute to the development of the students' abilities to think clearly and to express ideas with clarity and logic. An emphasis is placed on chemical calculations and the mathematical formulation of chemical principles. A laboratory experience equivalent to that of a typical college course is provided. *Prerequisites: Successful completion of the four Regents Science courses.*

Applied Science (1 credit) - This course incorporates the study of various applications of the sciences. The course is designed to be largely project-based and responsive to student interests.

Chemistry in the Community (1 or ½ credit) - In this course you will learn how the chemicals around us interact with the environment and humans. Topics will include: chemicals in our everyday lives, conserving our chemical resources, chemistry of the air and climate, water quality, and health risks and choices. Lab experiences will accompany the lecture material.

Forensic Science (1 credit) - The class introduces students to the fundamental scientific aspects in the field of forensics and focuses on the activities of the crime lab. Students will become actively involved in crime scene investigations and evidence collection. They will explore the methods used by scientists to link suspects and victims to crimes. The course will emphasize scientific inquiry, and students will be required to come up with their own conclusions.

Environmental Geology (1 credit) - Environmental Geology is “the application of geologic information to the entire spectrum of interactions between people and their physical environment”. The earth is composed of many systems which cycle matter and energy throughout the planet in many ways. In this class we study these systems as well as human interaction with the physical setting. Topics include (but are not limited to): climate, resource extraction, freshwater, topography, soils, solid waste and paleo-ecology.

Social Studies

Global History and Geography 9 and 10 (1 credit each) - The global history and geography core curriculum is designed to focus on the five social studies standards, common themes that recur across time and place, and eight historical units. This course is divided between grades 9 and 10 with a Comprehensive Regents Examination covering the 10th grade curriculum.

Global 9 Honors (1 credit) - Global 9 Honors is rooted in the Regents Global 9 curriculum and will address the same themes, standards, and units as the Regents course. Additionally, Global 9 Honors will introduce skills, concepts, and methods to prepare students for success in future AP courses. Students taking Global 9 Honors should be prepared for additional reading and writing assignments as well as a higher expected level of performance.

Advanced Placement World History (1 HS credit; college credit depending on AP Exam score) - The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriated analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences as well as comparisons among major societies.

Advanced Placement European History (1 HS credit; college credit depending on AP Exam score) - AP European history is a college-level survey course using a college-level text. It covers the political, economic, religious, social, intellectual, and artistic heritage of Europe. It spans the period from 1450 to the beginning of the 21st century. It expects students to analyze historical evidence and read the analysis of both the primary textbook and of others to recognize trends and patterns over the last 600 years: the rise of nation-states and the competition among them; the impact of economic innovation on states and individuals; the interaction between forces of progress and tradition; the struggle by women, peasants, workers, and ethnic and religious minorities for empowerment; the advantages and destruction brought about by the European search for dominion over new lands and peoples. This will be an extremely challenging course that will involve a great deal of time management. You will be required to take the AP European History exam (in early May) as well as the New York State Global History and Geography Regents exam in June that all tenth grade students must take to meet graduation requirements. This course will be treated as a college-level course and one of the most important skills that you will need to develop is the ability to take effective notes. We will spend time, especially at the beginning of the year, on note-taking. Through this, you will be able to find the best form of note taking for you. Next is the completion of assigned tasks. This, of course, is expected. Work assigned is work that must be completed. Exceptions are illness and emergencies. Completion of tasks is a “real world” concern since it has implications in your own personal values and abilities to complete tasks in a work place. Good work habits are essential in a highly competitive world.

United States History and Government (1 credit) - In this course students survey American history from the pre-Columbian period to the present, with a special focus on the development of the United States governmental institutions and actions. Beginning with the interactions between indigenous and European explorers, the course traces the colonial and constitutional foundations of the United States and explores the government structure and functions written in the Constitution. The course continues onward to examine the development of the nation and the political, social, and economic factors that led to the challenges our nation faced in the Civil War. Industrialization, urbanization, and the accompanying problems are examined, along with America’s emergence as a world power, the two world wars of the 20th century, and the Cold War. Students explore the expansion of the federal

government, struggles of differing communities to achieve, and expand, acceptance and greater rights, the threat of terrorism, and the place of the United States in an increasingly globalized and interconnected world. A key element of the New York State Social Studies Framework calls for students to learn about the structure and function of governments and to learn how to take on their roles as citizens. Students should understand those basic principles and the cultural heritage that support our democracy so that they can become informed, committed participants in our democracy. This core curriculum focuses on how individuals and groups throughout history have challenged and influenced public policy and constitutional change. The course culminates in June with the New York State United States History Government Regents Examination.

Advanced Placement/Dual Credit United States History – MVCC HI 111 & 112 (1 HS credit; 6 college credits) - In this course students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present today. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing historical thinking skills including comparison, causation, and continuity and change. The course also provides several themes that students explore throughout the course in order to make connections among historical developments in different times and places: Migration and Settlement (MIG), America in the World (WOR), Geography and the Environment (GEO), Politics and Power (POL), American and National Identity (NAT), Work, Exchange, and Technology (WXT), and Culture and Society (CUL). There are no course prerequisites for Advanced Placement United States History, and all interested juniors are welcome to register for the class. However, the College Board suggests that enrolling students should be able to read a college-level textbook and write grammatically correct, complete sentences. The course culminates in May with the Advanced Placement United States History Examination and in June with the New York State United States History & Government Regents Examination.

Participation in Government and Civics (½ credit) - This course aims to provide students with opportunities to become engaged in the political process by acquiring the knowledge and practicing the skills necessary for active citizenship. The course will adapt to present local, national, and global circumstances, drawing on current events to illuminate key ideas and conceptual understandings. Participation in government and in our communities is fundamental to the success of American democracy.

Dual Credit American National Government – MVCC PS 101 (½ HS credit; 3 college credits) - This course introduces the discipline of political science through the study of American government. Topics include the concept of the political system, democracy in theory and practice, the historical background and content of the Constitution, Federalism, and the role of the Supreme Court in civil rights. This course fulfills the Participation in Government (½ credit) diploma requirement.

Economics, the Enterprise System, and Finance (½ credit) - This course examines the principles of the United States free market economy in a global context. Students will examine their individual responsibility for managing their personal finances. Students will analyze the role of supply and demand in determining the prices individuals and businesses face in the product and factor markets, and the global nature of these markets. Students will study changes to the workforce in the United States, and the role of entrepreneurs in our economy, as well as the effects of globalization. Students will explore the challenges facing the United States free market economy in a global environment and various policy-making opportunities available to government to address these challenges.

Dual Credit 50s, 60s, 70s The United States in Vietnam – MVCC HI 113 (½ HS credit; 3 college credits) - From the MVCC Course Catalog: “This survey course traces the American involvement in

Vietnam from the end of World War II through the defeat of the Republic of South Vietnam. It develops an understanding of the events, conditions, and policies that moved the United States from a position of little involvement and interest in 1945 to a national commitment to the survival of an independent South Vietnam." Here at Sauquoit Valley, we expand the scope of this the established MVCC class to include not only an examination of America's involvement in the Vietnam War, but also the social, economic, and political developments that happened domestically during this three-decade period.

Technology

Architectural Drawing (1 credit) - This one unit course is designed for studying the planning and design considerations needed for a one family dwelling. A good deal of time is spent understanding our present homes, materials used, and construction techniques. Also, different types of architectural techniques will be studied. Students will draw a set of plans on the computer for a home of their own, as well as other dwellings, using AutoCAD and D.C.A. engineering software. This course will also include a civil engineering section as well to learn if what you design will actually work in the real world. *Prerequisite: DDP or permission of instructor*

Communication Systems I (½ credit) - Systems Course. Communication Systems is a course designed to study the application of technical means to extend the ability to communicate with others, using such devices as radio, television, satellites and computers. Students will learn desktop publishing, photo manipulation, graphic design, basic radio and television production skills, use digital cameras, and learn how to create effective presentations. These skills are essential to many career fields in today's world.

Communication Systems II (½ credit) - Similar to Communication Systems 1, students will go deeper into video production, podcast creation, and more.
Prerequisite: Communication Systems I

Computer Automation & Repair (½ credit) - In the 3D and Automation unit, students will explore the revolutionary world of 3D printing technology and production automation. This unit will provide a comprehensive overview of the principles, tools, and techniques involved in 3D printing and how it is transforming various industries. The Computer Repair Unit provides an overview of computer components, including hardware and software, as well as hands-on experience in building and repairing computers. Students will learn about the different parts of a computer and how they function together.

Construction Systems I (½ credit) - This course is designed to provide students with a general understanding of the materials and processes used in constructing and designing residential structures. This course was created predominantly as a hands-on course where students will gain knowledge through direct contact with materials and processes commonly used in the construction of new homes. Students will work on projects such as; house framing, constructing a storage shed, and working on mock wall sections where students will utilize techniques for installing, plumbing, insulation, electrical, sheet-rock, hanging doors and windows. Students will also explore the history of residential structures, and investigate job opportunities and career training options that are available in the field of residential construction.

Construction Systems II (½ credit) - This course is designed to provide students with an in-depth understanding of electrical, plumbing, advanced framing, and insulation. Students will study construction management (material cost, scheduling, safety, etc..) and have an opportunity to be project managers. *Prerequisite: Construction Systems I*

DDP - Design and Drawing for Production (1 credit) - Note: Fulfills one unit Art/Music requirement. Numerous commands and command sequences are learned and applied in competing simple one, two, and three view technical drawings. Three-dimensional modeling is covered once the basics of two-dimensional drawing are mastered. Various elements of design are discussed and then utilized as well as assorted 3-D modeling exercises. This new curriculum starts from the concept of developing a 3-D model of an object-first by hand then using other tools such as computers. Once the

model is created, the object, whether a teapot or a space shuttle, can be observed from many different viewpoints: animated, textured, rendered, highlighted or re-proportioned. This 3-D model representation has become the industry standard. Possible Projects/Activities: -Bridge Building (West Point bridge builder), Reverse Engineering: Students will measure an object and produce a 3-D CAD model of the part. Quality Control: Students will evaluate the quality of man-made objects, 3-D Modeling. Students will select a consumer product and trace the design changes over the history of the product and suggest future innovations. Students will design a model of an object made from a "4x8" sheet of plywood (4x8 inch gray cardboard) using only six cuts (no waste allowed). Students will produce a computer generated model, set of working drawings, and a cardboard model.

Digital Electronics – MVCC ET 235 (1 HS credit; 4 college credits) - Digital Electronics is a full year course designed to expose students to the terms and conditions of electronics in today's digital world. It begins with an overview of analog and digital fundamentals and terminology, binary number Systems and Boolean algebra, gates and digital logic circuits, and digital circuit design and fabrication. Students will use "Livewire" software to design and test digital circuitry, then set up, wire, and troubleshoot these circuits using breadboards and test equipment. This course is designed as a foundation course in a sequence of pre-engineering. This course can also be used as a substitute for the third year of math or science required of all students provided they have passed all required exams needed for graduation purposes. ET 235 Course Description (from MVCC.edu): This course provides an overview of the basic logic circuits inherent in all digital electronics applications. Topics include the various numbering systems, encoders and decoders used in digital systems, binary logic gates, flip-flops, counters, and shift registers with arithmetic circuits. Memories and interfacing of digital and analog devices are also investigated. Experiments supporting related information are designed to provide maximum hands-on experience for students with no prior training in electronics.

Digital Literacy (¼ credit) - Students will explore & discuss the impact of our digital world on our real world; discuss & explore what it means to be a responsible, ethical, digital citizens; and discuss & explore what it means to be a thoughtful, engaged, critically thinking consumer and producer of digital artifacts/information. This is one component of the 4-part "STEAM Sequence."

Emerging Technologies (¼ credit) - This course will cover emerging technologies such as those on the list below, at a somewhat detailed introductory level. Each unit will last anywhere from 2-10 days. Some examples of units are: 3D Printing, VR/AR, Drones, Biometrics/Health Tracking, Cryptocurrency and NFTs, Smart Home Devices, Electric/Driverless Cars, Space, AI, 5G Networks, and Robotics. This course is one component of the 4-part "STEAM Sequence."

Energy (½ credit) - This on-line course involves an in-depth study of energy technology as a resource of society. Emphasis will be placed upon the most recent technological developments related to each energy source. In this class, students explore alternate energy sources such as wind power, hydro-power and solar energy, comparing them with exhaustible resources such as nuclear and traditional fossil fuels, including hydrofracking and natural gas. Students take a global perspective on energy sources by comparing economic, efficiency, political and environmental impacts of using different energy sources.

Home Repair and Woodworking (½ credit) - These units teach essential home repair tasks and woodworking techniques through hands-on activities. Topics covered include Sheetrock repair and painting, electrical work, plumbing with PEX pipes, hanging pictures and shelves, and caulking joints. In woodworking, students will create cutting boards, Adirondack chairs, and charcuterie boards to develop their skills.

Introduction to Computer Science (¼ credit) - This subject is aimed at students with little or no

programming experience. It aims to provide students with an understanding of the role computation can play in solving problems. It also aims to help students, regardless of their major, to feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals. Build real working apps, games and websites using blocks, JavaScript, CSS, HTML and more. Learn the fundamentals of Computer Science. Create your own drawings and games with drag & drop blocks. This course is one component of the 4-part "STEAM Sequence."

Nanotechnologies (¼ credit) - An introduction to nanotechnology. Topics include semiconductors and career opportunities. This course is one component of the 4-part "STEAM Sequence."

Photoshop (½ credit) - Photoshop is a course where students study different parts of design and printing. This course will use a variety of projects, which allows the student to explore web and graphic design with a hands-on approach. Students will use computers and other digital medium to design and create projects using Adobe Photoshop. The world of printing will also be explored and the different methods of printing of materials that the students are familiar with such mediums as magazines, newspaper, etc. Students will be able to construct eye pleasing visual displays either for the print media or web. Note: This course is taught entirely online.

Principles of Engineering (1 credit) - Note: This course can be used as a substitute for the third year of math or science required of all students provided they have passed all required exams needed for graduation purposes. Principles of Engineering is a full year course designed to introduce students to the concepts and principles, skills and techniques, and attitudes common to the engineering field. Through short learning activities and a series of real world case studies, students develop concepts in engineering design, modeling, systems, optimization, technology/society interaction, and engineering ethics. This course also develops a relationship between mathematics concepts, scientific principles, and technological practices in the completion of assigned tasks. Possible Projects/Activities: Automobile Crash Test Study, Egg Crash Vehicle Activity, Real world Problem Solving, Fuel Cells, Solar Powered Products *Prerequisite: DDP or approval by course instructor*

Residential Structures (1 credit) - This course is designed to provide students with a general understanding of the materials and processes used in constructing and designing residential structures. This course was created predominately as a hands on course where students will gain knowledge through direct contact with materials and processes commonly used in the construction of new homes. Students will work on projects such as; constructing scale models of house framing, constructing a storage shed, and working on mock wall sections where students will utilize techniques for installing, plumbing, insulation, electrical work, sheet-rock, hanging doors and windows, and installing cabinetry. Students will also explore the history of residential structures, and investigate job opportunities and career training options that are available in the field of residential construction. Possible Projects/Activities: Safely use power tools, Build small project to take home (bird house, picture frame, etc...), Learn to estimate building material cost, Blueprint Reading, Basic electrical work (outlets, lights, ceiling fans, etc...), Residential plumbing (copper, plastic, valves, sink repair, etc...), Roofing, Deck and porch construction, Culminating project: Build a small building

Video Production 1 (½ credit) - Students will create short video clips by editing sound and video from multiple sources. The goal of this course is to teach students a wide variety of aspects that are involved with video production. By the end of this course, students will be familiar with various kinds of production formats such as biography, news story, short movie, and more. Students will also learn how to operate video production equipment such as cameras and editing software. Possible Projects/Activities: Editing, Sound, Careers in Video Production, Software and Equipment Tutorial, Story Design, Script Writing, Commercials, Weekly News-Local Coverage, Current Events-National

Coverage, Public Service Announcement, People at Work, Mini-Drama, Campus Story, Mood Piece, Music Video

Video Production 2 (½ credit) - In this course, we will continue developing the techniques in filming and editing that we did in Video Production 1. Students will experiment more with live video production as well as camera techniques, editing, and other areas of production that are involved with video. More collaborations with larger groups of students will take place to develop longer, more detailed films. *Prerequisite: Successful completion of Video Production 1*

Web Development (½ credit) - Web development is a course that will delve into the world of computer programming. Students will learn the basics of different programming languages, as well as mobile app development.

World Languages

American Sign Language I (1 credit) - ASL 1 will teach students introductory level vocabulary, basic grammar structure, Deaf history, and the cultural background needed to communicate with Deaf individuals. Instruction will include the language functions, asking for and giving information, making requests, giving directions, agreeing and disagreeing, expressing likes and dislikes as well as many other skills required to communicate on a novice level. ASL 1 offers students a variety of experiences that will develop their awareness of the world around them. Likewise, the multimedia exposure students experience in this class will help them better understand the Deaf culture. As the course is derived from the New York State Learning Standards for Languages Other than English, this course satisfies the criteria required by New York State to earn the Languages other than English (LOTE) course credit.* The course is also aligned to the national proficiency guidelines published by the American Council on the Teaching of Foreign Languages (ACTFL). Here at Sauquoit Valley, this course is offered via Distance Learning.

French I (1 credit) - The basic objectives of French 1 are to help each student attain proficiency in the French language by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Students will listen, speak, read, and write in the French language. This is an active class that gives the beginning student the vocabulary necessary to communicate on a basic level with French speakers on a variety of familiar subjects such as school, home, activities, etc. Cultural activities will accompany language lessons to acquaint students with cultural practices, products, and perspectives of various French-speaking countries from all over the world.

French II (1 credit) - French 2 reviews and expands upon the vocabulary, grammar and verb structures from Level 1 focusing on the three modes of communication: interpretive, interpersonal, and presentational. Students begin to express themselves with some degree of fluency and fluidity. Students become proficient in the four skills of listening, speaking, reading, and writing. Cultural practices, products, and perspectives are embedded into lessons and enhanced through the use of videos and other authentic materials from many Francophone countries. *Prerequisite: Successful completion of French I*

French III (1 credit) - This course focuses on the advancement of the three modes of communication: interpretive, interpersonal, and presentational. It is designed to increase students' fluency in the four skills of language learning: listening, speaking, reading, and writing in French in order to gain skills to communicate effectively with a native speaker. Cultural practices, products, and perspectives are embedded into lessons and enhanced through the use of videos and other authentic materials from many Francophone countries. In June students take a Checkpoint B exam. Upon successful completion of passing both the class and the Checkpoint B exam students fulfill a World Language sequence thus earning a requirement for an Advanced Regents Diploma. *Prerequisite: Successful completion of French II*

French IV (1 credit) - This course emphasizes advanced grammar, composition and conversational skills including the cultural practices, products, and perspectives of Francophone countries. Students work in the three modes of communication: interpretive, interpersonal and presentational. Students study French history, short stories, art, poetry, and plays. Students complete many projects based on the cultural practices, products, and perspectives from various Francophone countries. This course serves as a bridge to the French Dual Credit course offered to students through Mohawk Valley Community College (MVCC). *Prerequisite: Successful completion of French III*

Dual Credit French V – MVCC FR 201 & 202 (1 HS credit; 6 college credits) - Students become proficient in reading, writing, listening, and speaking in French at an advanced level through authentic Francophone literature. Students will be exposed to cultural practices, products, and perspectives from various Francophone countries. This is a dual credit course for students that wish to earn college credit during their Senior year of high school. This course offers 6 transferable college credits from Mohawk Valley Community College (MVCC). It is free of charge and the 6 college credits are transferable to most two and four year university programs. These 6 credits can serve toward a minor or major in French, if desired. You must order a transcript from MVCC in order to have these credits transfer to another college. *Prerequisite: Successful completion of French IV or teacher recommendation*

Spanish I (1 credit) - Spanish I is an introduction to learning the fundamentals of the Spanish language. A basic vocabulary is learned, including an ability to utilize verbs in the present tense. Both oral and written communications are stressed. In addition, students become aware of the various Spanish speaking cultures.

Spanish II (1 credit) - Spanish II further enriches students' written and oral ability, including the introduction to other indicative verb tenses, formal commands, and advanced grammatical structures. Utilizing Spanish, the student speaks and writes about Spanish America and Spain.

Spanish III (1 credit) - Spanish III offers students a more complex study of the language structure, including an exposure to all very tenses (indicative and subjunctive) and idioms. Students read, write and speak from a variety of sources. Stress is placed on the ability to be understood by a native speaker.

Spanish IV (1 credit) - This course is an in-depth study of all forms of Spanish literature and history. Much of the study is individualized. Strong emphasis is placed on fluent oral as well as written communication. Grammatical structure and vocabulary are constantly reviewed and enriched.

Graduation Requirements & Designations

For a summary of New York State graduation requirements (credits and assessments), click/visit this link:

https://www.nysed.gov/standards-instruction/graduation-requirements

For more detailed information on New York State graduation requirements, click/visit this link:

http://www.nysed.gov/common/nysed/files/programs/curriculum-instruction/diploma-and-credentials-summary-requirements.pdf

Questions?

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