

Spencer-Van Etten High School



Course Guide
2020-2021

Spencer – Van Etten High School

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Agriculture

Introduction to Agriculture, Food, and Natural Resources

1 credit

Through this course, students will get a brief sampling of all that agriculture includes. Students can expect to work with animals and plants, process and market products like floral arrangements and snacks, and research agricultural practices in foreign countries.

Small and Large Animal Science

1 credit

Students who think working with animals is a possible career path should not miss out on this course! We will learn about the anatomy, management and care practices of livestock species (cattle, pigs, horses, etc), companion animals (dogs, cats), exotic animals (reptiles, birds, amphibians), and pocket pets. This class includes hands-on practical as well as weekly animal chores to gain animal handling experience.

Prerequisites: Life Science (MS or higher)

Horticulture

1 credit

This is an introductory course that will introduce students to the wonderful world of plants, gardening and landscaping. A portion of the class will be devoted to landscaping and the class will be responsible for a landscaping project. Students will also spend a lot of time outside in the hoop houses and school garden. Students will learn plant identification as well as the plant needs and parts. This is a hands-on course and students will have to be okay getting a little dirt on their hands.

Introduction to Agriculture Business

1 credit

Students will discuss business functions, organization structures, management skills and economics and examine elements of a business. Students will also develop business plans, financial reports and strategic goals for new ventures or existing businesses. Students will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Students will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations.

Floral Design

.5 credit

This course will introduce students to the basic principles of floral design as well as practices and techniques encountered in the floral industry. Emphasis will be placed on the use of seasonal flowers and foliage's to create natural, garden-inspired arrangements that combine color and texture to bring out the desired effect. Students from the fall semester class will have the opportunity to test their skills and knowledge at the New York State FFA Convention Floriculture Contest in May.

ART

Studio in Art

1 credit

This course is an introductory course that provides the student an opportunity to explore the Elements of Art and Principles of Design through the use of various media including drawing, painting, printmaking, ceramics and collage. Basic visual literacy and visual communication skills will be instructed. A basic survey of art history will be covered and a final based on the information learned. All other Visual and Media Courses are prerequisites for this course.

3D art

.5 - 1 credit

This is a second year course available for any student who has completed Studio in Art. This art course deals with art in its 3-Dimensional form. A variety of mediums will be explored, which may include textiles, ceramics, papier-mâché, wire sculpture...and more! Students will participate in a wide range of experiences using additive or subtractive sculptural techniques designed to build artistic and creative confidence. An appreciation for art from various cultures will be developed. Projects are designed to teach thinking skills and to include useful Art experiences such as color theory, so that no matter what vocation students pursue, the knowledge gained in this class will be of value to them.

Digital Photography

1 credit

This course is a second year course available for any student who has completed Studio in Art and is at least a sophomore. Students in Photography will develop and expand their skills in producing both artistic and commercial photographs using digital DSLR cameras and equipment. Students learn to take artistic digital photos following rules of composition, light, exposure, elements of art and principles of design which also enhances their ability to produce quality commercial work. Adapting and updating student's skill set to the ever changing software and hardware technology is a constant goal of all photography courses.

Digital Photography 2

.5 - 1 credit

This course is designed to meet the needs of students who wish to learn advanced techniques in photography.

Students will build upon skills learned in the introductory photography course. Topics may include: documentary photography (photojournalism), studio photography (portrait lighting techniques), how to build strong compositions, operation of a DSLR (digital single lens reflex) camera, and advanced Photoshop techniques. Students are encouraged to develop their own personal vision and style. Students have the opportunity to submit work to competitions throughout the year. A lab fee is required. PREREQUISITE: Studio in Art, Digital Photography 1

Adobe Photoshop

.5 credit

This course is a second year course available for any student who has completed Studio in Art. This course is designed to give students an understanding of how to apply Adobe Photoshop CS6 to perform many different image-processing techniques. Adobe Photoshop CS6 has become an industry standard for so many different disciplines including graphic design, digital photography, web design, digital video editing, and creating animations. Adobe Photoshop CS6 is often a prerequisite for many other software programs and is the one program that everyone in every area of digital media should know. Through project work, students will learn how to use several tools for selecting parts of images, retouching, layers, special filters, digital photography scanning techniques, Wacom Tablets and animation.

Drawing & Painting

1 credit

A second year course that provides an opportunity for students to expand on the drawing and painting concepts introduced in Studio in Art. Emphasis is placed on experiences with design principles, drawing techniques and painting skills leading to the development of abilities that are necessary for advanced art courses. Students are given more in depth problems to solve creatively while becoming more adept through a broad exposure to various media. A lab fee is required. Prerequisite: Studio in Art

Drawing & Painting 2

1 credit

An upper level course designed for the student who wishes to further develop skills and techniques that were introduced in previous drawing and painting courses. This is a desirable course for any student wishing to develop a portfolio for college. It is expected for any student intending to enroll in Advanced Placement Art to successfully complete this course. Students will be continually encouraged to expand their creative ideas as well as their technical potential. The course will approach drawing and painting utilizing various techniques and materials. A lab fee is required. Prerequisite: Studio in Art, Drawing and Painting

CCC Art Essentials

1 credit / 3 credits CCC

[ARTS 1000 – Essentials of Art](#)

ACE Art Essentials is a college level course where students will learn the foundations of art while also creating some artwork of their own. It is an introduction to the visual arts emphasizing the understanding and appreciation of art through a review of the elements and principles of art and design, as well as an examination of two and three dimensional art forms, artists, methods and media. Upon successful completion of this course the student will earn 3 college credit hours. There are no prerequisites for this class, however you must be a Junior or Senior.

Design and Drawing for Production

1 credit

DDP focuses on technical drawing with an understanding of fractions, mathematics, and measurements within a 1/16". You will learn the use of tools used by architectural designers before moving on to creating a blueprint of a house, which you will then build. The last two marking periods focus on the technology side with solid works programming and possible 3D printing of your design. An understanding of simple math (addition, subtraction, multiplication, and division) and a ruler is a plus in this class.

Business

Accounting I

1 credit

Good background for students planning to study business in college; learn how to record different financial transactions, prepare financial statements; learn by working with a business simulation activity package and some computer applications. The course teaches the student: (1) the basic accounting vocabulary, (2) to analyze business transactions from an accounting viewpoint, and (3) to recognize, record, and classify new accounting data. This course may be used to meet the required third year of math.

TC3 Accounting

1 credit/4 College Credits TC3

This course introduces basic accounting concepts and principles for the sole proprietorship with an emphasis on the accounting cycle, and the preparation of financial statements along with their supporting schedules. Emphasis is also placed on the use of special journals, subsidiary ledger, and valuation accounts.

Minimal Basic Skills Needed to Complete Course Successfully: a) The course requires reading of mostly beginning college level material. b) Basic math skills of addition, subtraction, and multiplication. c) Writing skills to meet the NYS Common Core Standards.

Prerequisites: Algebra and Geometry (including passing the Regents exam)

[ACCT 101 – Principles of Accounting](#)

Business Law

1 credit

This course is for everyone who wants to know their legal rights. The Business Law course is designed to provide students with an overview of our legal system, including statutes and regulations that affect businesses, families, and individuals in a variety of ways. Knowledge of business law is particularly useful because all students eventually assume the role of citizen, worker, and consumer in society. Students will also have a better understanding of how and why contracts are made. This is a good course for anyone who plans on studying business or law in college.

Personal Finance

1 credit

Did you know that the average teen spends almost \$3,500 per year? That is a lot of buying power. Unfortunately, research also indicates that teens know very little about managing their money. Personal Finance can help you navigate the financial decisions you will face when you leave high school. This course will inform students how individual choices directly influence occupational goals and future earnings potential. Learn how to spend your money wisely and how to plan for financial security. Learn how to: prepare income tax forms, budget your money, rent or buy a home, investigate career options, establish and maintain a checking account and understand credit cards. This course may be used to meet the required third year of math.

TC3 Personal Finance

1 credit/ 3 College Credits TC3

This course addresses finance at a personal and practical level. Students examine current economic conditions focusing on how they can impact their personal economic situations. Ethics are examined and personal management of cash, debt, credit, investments, insurance, and home buying.

Prerequisites: Algebra and Geometry

Minimal Basic Skills Needed to Complete Course Successfully: a) ability to read mostly beginning college level material. b) basic math skills of addition, subtraction, and multiplication. c) writing skills to meet the NYS Common Core Standards.

[BUAD 109 – Personal Money Management](#)

English

English 9

1 credit

This course introduces students to the demands and skills essential to English success at the high school level. Using historical content alignment with Global I, students will complete requirements using all four literary skills - reading, writing, listening, and speaking - to enhance both the learning material and skills associated with our S-VE District, Program, and Course Outcomes. Introducing and preparing students to the New York State Common Core English Standards and Regents Exam through quality educational experiences will be emphasized as well. Our focus will be man's shared progress, tolerance, and behavior since the beginning of time to around 1750 by studying societies, cultures, religions, traditions, and politics to name a few.

English 9 Honors

1 credit

The honors program gears itself to students with superior work habits and motivation. Students participating in honors must complete additional requirements in reading and writing in preparation for the NYS English Regents Exam as well as college. Again taught in conjunction with Global I, students will read world literature enhancing skills and content for both classes. Honors students will also be required to read a minimum of 5 additional outside works throughout the year. **Prerequisites:** an 85 average or higher and an application process, which includes a teacher recommendation and a letter of intent.

English 10

1 credit

Students will continue to work with various genres of world literature and non-fiction from different time periods and styles, including novels, drama, short stories, essays, graphic novels, and young adult literature. Additionally, students will continue to work on improving the writing and reading skills that are essential for success in high school and beyond. Students will be given several opportunities to demonstrate their knowledge of these skills in argumentative, informative and creative writing, as well as other assessments including presentations, performances, and skills from the New York State Curriculum.

English 10 Honors

1 credit

Honors is designed for students with superior work habits and motivation. Students should expect a significant increase in responsibility over what is found in a Regents level course. This class will use world literature, focusing on historical alignment with the Global Studies curriculum. Honors students will also be required to read a minimum of 5 additional outside works throughout the year. In order to be considered for this class, students must have maintained a B or better average in English 9 or get teacher recommendation.

English 11

1 credit

This English class focuses on American literature. Students read fiction and non-fiction works including poetry, speeches, novels, autobiographies, plays, essays, and short stories from representative periods. Skills of reading, writing, listening, and speaking are addressed within the context of studying exemplary works. Through this integrated emphasis on literature, informational text, and communication skills, students will become prepared to successfully complete the English Common Core Regents Exam.

AP English Language and Composition

1 credit

Students in this introductory college-level course read and analyze a wide and challenging range of significant texts of American literature and history, focusing on the use of rhetorical strategies and transferring this learning to their own writing. Through self-reflection on their reading and writing behaviors, they become more aware of how skillful writers employ language to achieve specific purposes for particular audiences. Texts include speeches, political cartoons, letters, essays, novels, plays, photographs, autobiographies, and articles. In order to be considered for this class, students must have maintained a B or better average in English 10 or receive teacher recommendation.

English 12

1 credit / 6 College Credits TC3

ENGL 100 – TC3 English 100

ENGL 201 – TC3 Public Speaking

English 12 will be split into two separate semester-long courses, emphasizing focus on reading and writing skills in the Literature & Composition portion and speaking and listening skills in the Public Speaking portion. As a whole, English 12 ensures that students have developed proficiencies that will enable them to be successful in whatever path they take after graduation, whether it is the workplace, college or trade school, or the military. English 12 is the final opportunity to polish those skills that meet the English program outcomes established by the school district: Produce quality writing; Communicate effectively for a variety of purposes; Recognize the value of literature as a shared human experience; Read, write, view, listen and speak at the literal, interpretive and evaluative levels; Know how to use multiple resources in developing solutions. Students' successful mastery of these outcomes is measured by their performance on three exit tasks that are required for graduation: Senior Speech, Senior Project, and Senior Paper.

TC3 English 101

1 credit/ 6 College Credits TC3

This class is a combination of two semester- long college courses:

ENGL 101 -- Fall Semester

This college course improves student writing and reading to prepare them for the rigors and expectations associated with the collegiate level. This course focuses on essay writing in order to sharpen the student's perceptions of the world through the study and use of non-fiction writings and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments will include expository writing, argumentation, and research techniques.

ENGL 102 -- Spring Semester

This course advances critical and analytical abilities begun in ENGL 101. ENGL 102 is a dynamic writing class based on analyzing literature. Literary analysis essays will be written on works of fiction, poetry, and drama.

Self-Defense

1 credit/ 1 College Credit TC3

This English elective offers hands-on self-defense/Hidy Ochiai EKP techniques as well as public speaking and technical writing skills. Reading is a must too as we read several texts within this class articulating techniques and situations for mental and physical self-defense. Participants will be required to participate in physical exercise including blocks, escapes, falls, punches, kicks, and various other techniques. This class currently meets every other day throughout the year. Participants receive ½ English credit for the class and priceless awareness/self-defense training.

FITN213 – Fitness

This TC3 CollegeNow Course offering at SVE, typically for serious/skilled juniors and seniors taking self-defense, earns high school participants one college credit. Taught in conjunction with the regular self-defense class, this course offers additional reading, writing, and viewing as well as a more advanced level of techniques and proficiency. Participants taking this course will gain much confidence and awareness as well as a larger sense of importance, respect for self, and respect for others throughout the training and performances. Strong, gentle, non-violent students emerge from this class.

Broadcast Journalism

1 credit/ 3 College Credits TC3

This English elective offers video production and its many facets. As a project based class, we will produce actual videos that will air on Haeefele Television. From school productions and sponsored events to PSA, we will study, learn, and create visual advertisements to enhance awareness and attendance of our many school and community functions. These include the Sportsman Show, The Food Cupboard, Key Club's Empty Bowls, SVE plays and musicals, and much, much more. Participants will learn how to operate cameras and video equipment including audio and lighting as well as editing software for video production with voiceovers, transitions, special effects, and title screens. Drone flying and footage will also be taught.

COMM115 – Introduction to Digital Video

This TC3 CollegNow Course offering at SVE, typically for serious/skilled juniors and seniors taking broadcast journalism, earns high school participants three college credits. Taught in conjunction with broadcast journalism, this course offers additional video production opportunities with mandatory submissions. Additional projects include competitions like the Rod Serling Festival. Students will become proficient in storyboarding, video editing, interviewing, and recording techniques with cameras, camcorders, and drones. Real world interactions and connections will be made with local media sources and businesses.

Health & Physical Education

Physical Education

.5 credit

Physical education is an essential and basic part of the total education program. This class provides a variety of movement experiences to help all students develop the skills, knowledge, and attitudes necessary to lead healthy lifestyles. Throughout the year, students will be actively engaged in an array of activities that promote teamwork, cooperation, enhancement of personal performance, lifetime activity, and fitness concepts.

Health

.5 credit

Health is a course designed to guide students through the many dimensions of wellness and current health topics. Students will develop skills needed in confronting difficult situations and relationships, as well as understand health prevention and maintenance that will help establish a solid personal health education. The goal is for students to become health literate in making positive and healthy decisions for a lifetime upon finishing this course.

Women's Fitness

.5 credit

Women's fitness is a course designed just for female students to explore fitness concepts and programs. Students will be engaged in a variety of exercise activities, current fitness programs, and learn how to properly use a weight room. Students will also define proper nutrition techniques to use in combination to lead a healthy lifestyle.

LOTE

Spanish I

1 credit

Spanish 1 will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

Spanish II

1 credit

Spanish 2 builds upon knowledge gained in Spanish 1. This course will also reinforce the skills learned in Spanish I: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses, future, conditional and subjunctive mood. Students will be expected to apply them in their writing and speaking. Pre-requisites: Successful completion of Spanish 1, or instructor approval upon completion of placement test.

Spanish III

1 credit

The course is a continuation and recycling of knowledge acquired in Spanish 1 and Spanish 2, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the pluperfect and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature. Also, they will be introduced to Spanish culture in a variety of ways. Pre-requisites: Successful completion of Spanish 1 & 2, or instructor approval upon completion of placement test.

TC3 Spanish III

1 credit / 3 College Credits TC3

Spanish 201

This class focuses on furthering the acquisition of basic listening, speaking, reading and writing skills within a cultural framework. This course covers pronunciation, basic vocabulary for a wide variety of practical and personal communications, fundamental language structures, and activities for practice in reading and listening comprehension and speaking. Through a variety of activities, students will learn in context the vocabulary and language structures that will enable hundreds of kinds of communication activities in real-life settings. Activities include listening, reading, writing and speaking. These are gradually learned in the context of lesson themes, such as family, university life, food, shopping health, sports and leisure activities, cultural influences and practices in the Hispanic world

Pre-Requisite: Spanish II and grades of 88 or above

TC3 Spanish IV

1 credit / 6 College Credits TC3

This class is a combination of two semester- long college courses. Pre-requisites: Successful completion of Spanish III. Students must have scored an 85 or higher on the regional exam or permission from the instructor.

Spanish 201 – Intermediate Spanish I – Fall Semester

This course is intended to enhance reading, writing, speaking, listening and the understanding of the language through a systematic review of its structures and readings which reflect cultural patterns of Spanish-speaking societies.

Reading will include short literary pieces, current newspaper and magazine articles and other authentic material.

Research projects, writing exercises, journals and oral reports will be assigned.

Spanish 202– Intermediate Spanish II – Spring Semester

This course further the knowledge obtained in Spanish 201 (intermediate Spanish I). Also, has the intention to equip students' better understanding of language's structure, history and cultural patterns of Spanish-speaking societies.

Readings will include short literary pieces, thematic pieces, current newspapers and magazines articles, audio visuals, internet will be part of the lesson as well. Research projects, composition exercises, journals and oral presentations.

Students will be able to communicate in the present, past and future, also indicative, subjunctive and imperative moods

Mathematics

Algebra I

1 credit

The content standards associated with Common Core Algebra 1 are based on the New York State Common Core (CC) Learning Standards for Mathematics and the PARCC Model Content Framework for Algebra 1. Algebra I is associated with high school content standards within four conceptual categories: Number & Quantity, Algebra, Functions, and Statistics & Probability. Algebra I extends the mathematics that students learned in the middle grades. The units of study extend understanding of linear and exponential relationships that were introduced in earlier grades. Students engage in methods for analyzing, solving, and using quadratic functions. The course will culminate with the Algebra 1 Regents Exam given in June.

Algebra A

1 credit

The content standards associated with Common Core Algebra 1 are based on the New York State Common Core (CC) Learning Standards for Mathematics and the PARCC Model Content Framework for Algebra 1. Algebra A is associated with high school content standards within two conceptual categories: Number & Quantity and Algebra..

Algebra A is the first year of a two year. Algebra curriculum that extends the mathematics that students learned in the middle grades. The units of study extend understanding of linear and exponential relationships that were introduced in earlier grades.

Algebra B

1 credit

The content standards associated with Common Core Algebra 1 are based on the New York State Common Core (CC) Learning Standards for Mathematics and the PARCC Model Content Framework for Algebra 1. Algebra B is associated with high school content standards within four conceptual categories: Number & Quantity, Algebra, Functions, and Statistics & Probability.

Algebra B extends the mathematics that students learned in the middle grades and in Algebra A the previous year. Students engage in methods for analyzing, solving, and using quadratic functions. The course will culminate with the Algebra 1 Regents Exam given in June.

Regents Geometry

1 credit

This is a one year/one credit course preparing students for the Common Core Geometry Regents exam. The topics include congruence, proof and constructions, similarity, proof and trigonometry, connecting Algebra and Geometry through coordinates and circles with and without coordinates. In this course students will be asked to make conjectures and prove them using transformations, coordinate geometry, and logic to justify their statements. All students in this course will take the regents exam offered in June.

General Geometry:

1 credit

This is a one year course giving students one math credit upon successful completion. Students will learn properties of triangles, quadrilaterals, and circles. Other topics to be taught are transformations, similarity, and three dimensional geometry. This course will give students a solid basis of geometry to prepare them for Regents Geometry the following year. At the end of the school year in June students will take a local final exam.

Algebra 2

1 credit

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical 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. Building on their previous work in Algebra 1 & Geometry, students will examine probability distributions, identify different ways of collecting data, and use the coordinate plane to extend trigonometry to model periodic phenomena. The course will conclude with the Algebra 2 Regents Exam given in June.

Foundations of Algebra 2

1 credit

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical 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. The students will then enter the regular Algebra 2 class next year with a solid foundation already built in order to take the Algebra 2 CC Regents.

TC3 Pre-Calculus

1 credit/ 4 College Credits TC3

Provides the algebraic foundation, from function standpoint, for a standard calculus course. Topics include inverse functions and their graphs; exponential functions and logarithmic functions with applications; trigonometry with applications, vectors, and conic sections. A TI-83 graphing calculator is recommended.

[MATH 135– Precalculus Mathematics](#)

TC3 Calculus:

1 credit/ 4 College Credits TC3

The course focuses on the three fundamentals of Calculus: limits, derivatives, and integrals. Students will apply their skills for these fundamentals with many integrated problems that involve higher level thinking and processing skills.

[MATH 201 – Calculus I](#)

Music

Senior Band

1 credit

Open to any student grades 9-12. Previous experience playing a band instrument is recommended but not required. The S-VE Senior Band is a large concert band which meets every day and enables students to further develop musicianship and skills on their instruments and to experience live performance in a setting dedicated to individual and ensemble excellence. Each band member is expected to participate in all assigned performances. Lessons are required of all students in band and students are excused from regular classes to attend lessons. A rotating schedule of lesson times is planned so no student should be excused from the same class more than once in each five weeks of school. The Senior Band plays music equivalent to NYSSMA levels 4-6 and members of the Senior Band may also choose to participate in a number of extra-curricular instrumental ensembles, including jazz ensemble and pep band.

CCC Music Theory

1 credit/ 6 College Credits CCC

This class is a combination of two semester- long college courses. Open to students in grades 10-12. The ability to read music is not required, but is highly recommended.

MUSC 1010 – Fundamentals of Music – Fall Semester

This course begins the study of music as an academic subject. Course work includes reading and writing musical pitch and rhythmic notation. Additionally, the student will explore basic scales, intervals, and melodic construction techniques as practiced since the 17th century. Course work will involve both written and aural skills.

MUSC 1110 – Music Theory I – Spring Semester

Music Theory I continues the fundamental study of music notation, scales, modes, keys, intervals, chords and melodic construction and introduces beginning concepts of harmony. In addition to basic musical knowledge, course work will include ear training. Appropriate for any student interested in understanding the basic tools of music composition, performance and listening.

Music Technology

1 credit

Open to students in grades 10-12. This course will serve as an introduction to the technology used in music recording, editing and production. Students will learn about the history of music technology and about careers in related fields. They will create electronic compositions, edit and produce music, and record live performances in a simulated studio environment. In the second half of the year, students will work on a project-based curriculum related to electronic composition, editing and arranging music, and recording. Class size is limited, and if necessary, preferential scheduling will be given to upperclassmen.

Concert Choir

0.5 credit

Open to any student grades 9-12. The S-VE Concert Choir is a large choral ensemble which meets every other day and enables students to develop individual musicianship and skill as vocalists while experiencing live performance in a setting dedicated to ensemble excellence. Each choir member is expected to participate in all assigned performances. Students learn proper techniques for breathing, phonation, the formation of vowels and consonants, expression, and dynamics. The Concert Choir performs music equivalent to NYSSMA levels 3-6. Interested students are offered the opportunity to perform solos and participate in honor choir experiences.

Science

Living Environment

1 credit

This course has been structured to help students meet goals relating to scientific inquiry and to gain an understanding of the Living Environment as set forth in NYSSLS High School Life Science performance expectations LS1 – LS4. NGSS states that “The performance expectations for high school life science blend core ideas with scientific and engineering practices and crosscutting concepts to support students in developing usable knowledge that can be applied across the science disciplines.” There are two parts to this course: class and lab. The class will focus on the following topics: 1) From Molecules to Organisms: Structures and Processes, 2) Ecosystems: Interactions, Energy, and Dynamics, 3) Heredity: Inheritance and Variation of Traits, 4) Biological Evolution: Unity and Diversity. In the lab portion of the course, students will participate in a NYS required minimum of 1200 minutes of hands-on activities to help students develop certain laboratory and technical skills.

Regents Earth Science

1 credit

This course has been structured to help students meet goals relating to scientific inquiry and to gain an understanding of Earth and Space Sciences as set forth in NYSSLS High School Earth and Space Sciences performance expectations ESS1 – ESS3. NGSS states that “The high school performance expectations in Earth and Space Science build on the middle school ideas and skills and allow high school students to explain more in-depth phenomena central not only to the earth and space sciences, but to life and physical sciences as well. These performance expectations blend the core ideas with scientific and engineering practices and crosscutting concepts to support students in developing useable knowledge to explain ideas across the science disciplines.” There are two parts to this course: class and lab. In the lab portion of the course, students will participate in a NYS required minimum of 1200 minutes of hands-on activities to help students develop certain laboratory and technical skills.

General Chemistry

1 credit

Practical/Current issues approach to the New York State Regents Chemistry Syllabus. A number of laboratory sessions are included in order to enhance material covered in lecture, and to expose students to laboratory methods and equipment. This course is offered on a rotating basis, falling during odd years.

Regents Chemistry

1 credit

Chemistry addresses the study of matter and energy at the molecular level of your world. Through an examination of scientific discoveries in history, you will become more aware of the current thinking about the structure of atoms, what makes different substances unique, the reasons that certain chemicals react, and how we manipulate the chemicals we have in our world to suit our needs for materials and energy. Your active involvement in the required laboratory component will illustrate the principles you study, and you will be required to communicate your results in written reports.

Prerequisite: Since mathematics is an important part of communicating in Chemistry, students must have passed the regents in Algebra I. It is strongly recommended that students have passed the regents in Biology.

AP/CCC Chemistry

1 credit / 8 College Credits CCC

AP/ACE Chemistry is a full-year class with a separate lab period that prepares students for the AP Chemistry exam concurrent with fulfilling the Corning Community College requirements for CHEM 1510 and CHEM 1520.

The principles of chemistry and its quantitative aspects, stoichiometry, characteristics of matter, structure and bonding, thermochemistry, solutions, kinetics, equilibrium, thermodynamics and electrochemistry are covered.

Descriptive chemistry is integrated throughout the course.

Pre-requisites: Regents Chemistry with 75% or higher for the course and Regents Exam are recommended. Mastery (85%) is preferred. Algebra II is also a highly recommended prerequisite.

This course is offered on a rotating basis, falling during even years.

[CHEM 1510 – General Chemistry I – Fall Semester](#)

[CHEM 1520 – General Chemistry II – Spring Semester](#)

STEM Physics

1 credit

Have you ever wondered why a spiral makes a football fly further? Why hasn't the Leaning Tower of Pisa fallen over?

Take a look at real-world examples from all around the globe to explain how and why things work the way they do.

Through active learning this class will teach the basic concepts of physics by relating them to the real-world that surrounds us. This course is offered on a rotating basis, falling during even years.

Regents Physics

1 credit

Physics opens the door to your understanding of many events in the world around you. This course addresses the development and refinement of our ideas about motion, forces, heat, vibrations, electricity, magnetism and the rules governing the behavior of atomic sized particles. You will learn that these ideas can be expressed mathematically, as well as through language, and that there are many unifying principles in nature. You will be actively involved in learning the rules to nature's laws. There is a required laboratory component to this course.

CCC Physics

1 credit / 4 College Credits CCC

This course is a dual credit course covering both Regents Physics and Corning Community College's ACE 1730 Mechanics Course (4 credits). It is an introduction to the principals of classical and modern physics. Mechanics of solids, periodic motion and sound, heat and properties of matter will be covered in the ACE course. Additionally, electricity, magnetism, and modern physics will be covered to complete the Regents curriculum. Class time is divided between lecture, demonstrations, and problem solving.

Suggested Prerequisites for success include:

- 1.) Math: Successful completion of Trigonometry and currently enrolled in, or passed Pre-Calc.
- 2.) Science: An 85% or higher on all past science regents/finals as well as overall average.

This course is offered on a rotating basis, falling during odd years.

[PHYS 1730 – Principles of Physics I – Spring Semester](#)

CCC Biology

1 credit / 8 College Credits CCC

This class is a combination of two semester- long introductory college courses for science majors that is designed to provide you with the knowledge and skills necessary to succeed in upper-level biology courses or a career in the biological sciences.

BIOL 1510 - General Biology I – Fall Semester

General Biology I will cover scientific methodology, biochemistry, cell structure and physiology, taxonomy, and bacterial, protist, fungal, and plant diversity, plant structure and physiology, and genetic mechanisms.

BIOL 1520 - General Biology II – Spring Semester

General Biology II will cover evolution, animal diversity, reproduction, development, animal anatomy & physiology, behavior, and ecology.

Introduction to Engineering

.5 credit

Students explore mechanical, chemical, civil, electrical, and aerospace engineering through a series of design challenges that illustrate how engineering can improve people's lives and health, meet the special needs of different customer groups, and even enable creativity in the arts.

Gaming Concepts

.5 credit

This course is designed to give students an overview of computer/video gaming and game development. Students will learn about gaming history, game design, psychological, sociological, physiological, and economic aspects of games and gaming.

Forensic Science

.5 credit

For students that would like an in-depth introduction to Criminal Justice. Topics of biology, chemistry, and physics will be applied to "crime." Evaluations will be traditional as well as projects and case studies. Students should be able to work in groups and successfully meet deadlines. Prerequisites: Successful completion of Living Environment OR counselor recommendation.

College Anatomy

1 credit / 3 College Credits CCC

This course presents an overview of major biological principles. It is appropriate for students who are not planning to transfer to an upper-level major in science, environmental science, medicine, or a science-related field.

Animals. Surveys the animal kingdom with emphasis on diversity, complexity, ecology, and sustainability. Emphasizes animal biology, including organ systems and genetics. Designed for the non-major.

BIOL 1020 –Introduction to Biology – Spring Semester

Introduction to Computer Science

1 credit

An interactive introductory course for students brand new to programming that teaches the foundations of computer science using the Python language. Not only will this semester- or year-long course prepare students for AP Computer Science A and AP Computer Science Principles, but it will teach students how to think computationally and solve complex problems, skills that are important for every student. Introduction to Computer Science is a great starting point for schools starting up a new computer science program, or seeking to enrich an existing CS program or course.

Language: Python

Prerequisites: No prior CS experience required. Algebra I preferred

AP Computer Science

1 credit

AP Computer Science Principles is an introductory class to computer science with a focus on computational thinking and the tools needed to analyze, study, and work with large data sets to draw conclusions from trends. This course is interdisciplinary as students explore how computer software and other technology can be used to solve problems. It will focus on the ethical implications of technology alongside the mechanical components. Students will learn Scratch and Processing programming languages.

Language: Scratch and Processing

Prerequisites: No prior CS experience required. Algebra II preferred

Social Studies

Global History and Geography I

1 credit

The Global History and Geography course follows a chronological approach and emphasizes how the past impacts today's world and how people throughout time in Europe, Asia, Africa, and Latin America have faced similar issues and situations. This course is designed to develop a global perspective and provide students with knowledge, skills, and attitudes needed to function effectively in a diverse world that is becoming increasingly interdependent. The curriculum covers ancient civilizations like Egypt, Greece, and Rome through the 18th Century in Europe.

Global History and Geography I – Honors

1 credit

The Honors course includes an emphasis on research and detailed topic exploration. Students will be responsible for a research project that is designed to build skills they will need in future honors courses. The vocabulary and themes of this course provide the foundation for Global History & Geography II – Modern World.

Global History and Geography II

1 credit

Global History and Geography II is a state Regents course. The course is taught in chronological format and is organized around a variety of themes and concepts. This course covers world history from the time of the Global Age up to the present day. Content will be taught through various modes of instruction. This class is structured using lecture, reading, writing, research, and small group collaboration as a means of learning. Students will be required to take the Global History and Geography Regents at the end of the course.

Global History and Geography II – Honors

1 credit

The honors course is designed to provide students with an in depth look into the events that shaped today's world. The goal of the course is to help students understand the nature of choices and decisions made by past civilizations from the Global Age forward. Content will be taught through various modes of instruction. This class is structured using lecture, reading, writing, research, and small group collaboration as a means of learning. Students will be required to take the Global History and Geography Regents at the end of the course.

U.S. History

1 credit

American History traces the development of the United States from a rebellious colony to a world power. United States history since the Declaration of Independence has witnessed efforts to apply the basic principles and core values of this document to all people. Adoption of the Constitution codified these principles but the country continued to struggle to guarantee these rights to all Americans. This course will investigate how the American experiment in democracy struggled with how to apply the vision of the Declaration of Independence. We will focus on how the Constitution has adapted to the struggles of Revolutionary America, the Civil War, Industrialization, the Great Depression, World War, the Cold War, and the various challenges facing our nation today.

AP/ TC3 U.S. History

1 credit / 6 TC3 College Credits

AP U.S. History covers the history of the United States from the pre-Columbian days to the present. The course is divided into 10 units that generally correspond to assigned chapters from Henretta's America's History. The course follows a chronological approach but also focuses on key themes when appropriate. Students are expected to actively participate in the course through class discussion. Special emphasis in the course is placed on developing students into historians through the analysis of primary sources and the evaluation of bias and interpretation.

This class is a combination of two semester- long college courses:

[HSTY 201 – American History to 1877 – Fall Semester](#)

[HSTY 202 – American History since 1877 – Spring Semester](#)

Economics

.5 credit

This course demonstrates the vital role that economics play in our society. Students will evaluate the impact of economic decisions, both on a personal level and as a society, and study both microeconomics and macroeconomics. A basic understanding of the economic process is needed for the student to assume his or her role as an intelligent consumer. Topics of study include but are not limited to economic system structures, government role in economics, market structures, and the credit system in the United States.

Government

.5 credit

Government and the political process are concerned with decision-making in the United States and the resulting power structures. The influence of interest group politics, political parties and mass communication on our governmental institutions is stressed in this course, as well as the importance of the individual in the political process.

TC3 Economics

.5 credit / 3 College Credits TC3

This course will examine basic concepts in microeconomics and macroeconomics by focusing on major issues facing society. The purpose of the course is to provide an economics foundation for citizenship by understanding the economic issues in news and politics. ECON 101 fulfills the SUNY General Education Social Sciences requirements but does not satisfy the economics requirement for business, finance, or economics-related degree programs.

[ECON 101 – Introduction to Economics](#)

TC3 Government

.5 credit / 3 College Credits TC3

ACE Government will focus on the theories and practices of the American Federal Government. This course will address such topics as the structure of federal, state, and local governments, the Constitution, the role of interest groups, political parties, public opinion, and media. We will also analyze how public policy is shaped by our government to address social, economic, and foreign policy issues.

[POSC 103 – American National Government](#)

Food Studies

.5 credit

Food history is a project based course that examines the history of food. The course focuses on the cultural, economic, environmental, and societal impacts of food. Students will examine civilizations, from ancient to modern, and their food traditions. Additional topics and project include, but are not limited to, systematic agriculture, food from around the world, restaurants, scarcity, wastefulness, and wartime food.

Lexicology

1 credit

Goal: To improve students' vocabulary by furthering their understanding of new words and concepts. We will use an approach that includes definitions and shows how words are used in various contexts that generate a full and flexible knowledge of word meaning. The more exposure you have to a word, the more likely it is that you will be able to define, comprehend, and remember it.

Military History

.5 credit

Military History is an elective course that covers American military history starting with the American Revolution and goes through the wars in Iraq and Afghanistan. Multiple delivery methods are used in the course combining Inquiry based learning opportunities with film study and primary source documentation. Students will learn about war tactics, strategies and weapons in order to gain a better understanding of the totality of warfare throughout the last 240 years. Students will also learn about the modern technology that is being developed in order to remove soldiers from the battlefields to preserve American lives. This elective course allows students independent study of topics of their personal interest.

American Sports History

.5 credit

American Sports History is an elective course that studies how sports have influenced and been influenced by historical events in America's history. This analysis will be done through select readings, movies, and student research. The course will largely focus on the interests of the students in the class.

History Through Film

.5 credit

History Through Film is a semester or year-long course. Students will watch historical films, each dedicated to an event, person, or era of American or world history. Prior to watching the films, students will learn about the geographic and historic factors that combined to create the historical topic of the film. They will use maps, and primary and secondary source documents, to create a framework for understanding the area and time period before watching the film. After watching the film, students will participate in activities that require research, writing, and presentation skills to evaluate the film in comparison to actual events.

Candor Classes

Through a partnership with the Candor Central School District, we are able to offer our students the opportunity to take additional courses at Candor High School. Students who take advantage of this opportunity will be bussed to and from Candor in the morning for their courses, and then follow a traditional SVE schedule when they return in the afternoon. The courses available to our students are the following:

CISCO I & II

1 credit

Using the Cisco Networking Academy program, students will learn to design, build, and troubleshoot small computer networks. This course spans two school years (11th - 12th), meets for either one or two class periods a day, and can result in an industry standard certification upon completion. Class size is limited and/or prerequisites may be required. Students will go through a selection process.

HEALTH CAREERS I

1 credit

Introduces students to the Health Services and Careers curriculum. Upon completion of this course the students will be able to apply critical thinking skills, understand basic medical terminology, know what available careers are in the health field, their basic job function, and their interaction with healthcare consumers and coworkers. Students will be able to obtain a certificate in Adult, Infant and Child CPR, basic first aid, and AED (automated external defibrillator). This course will lay the groundwork necessary for the students to progress into an extended health services/career program.

HEALTH CAREERS II/ANATOMY & PHYSIOLOGY

1 credit

Anatomy and Physiology is the second course in the two-year Health Services Program. The students study the anatomy of the human body in the 1st semester complete with a fetal pig lab. The second semester is studying the physiology of the human body.

HEALTH CAREERS III

1 credit

This course is broken down into four 10 week segments following the marking period schedule. They are: (1) Ethics of Health Care, (2) Nutrition and Diet Therapy, Essentials of Health and Wellness (3) sports medicine/ athletic training and (4) (a) Review and Re-certification of Adult, Infant and Child CPR and AED, and First Aid; and (b) time spent focusing on your chosen career. It is not required, but encouraged to pursue a job shadow in your chosen field of study.

ADVANCED HEALTH CAREERS

1 credit

This course will teach students the skills required to become a patient care technician and medical assistant. The focus will be on learning about admissions, transfers and discharging of patients, phlebotomy, electrocardiography, specimen collection and testing.

ARCHITECTURAL DRAWING

1 credit

In this course students will develop proficiency in basic drafting techniques used in building and construction drawings. After learning basic fundamentals of design, layout, and print reading students will use a combination of freehand sketching techniques as well as use the CAD program ArchiCAD to complete the following types of Architectural Drawings: floor plans, window and door schedules, foundation plans and details, and elevations. Students will gain knowledge and understanding of construction techniques, related to light construction principles, as well as mechanical layout of a residential structure. After learning basic fundamentals of construction, students will complete mechanical drawings, including electrical layouts, plumbing layouts, heating layouts, truss types, window and wall sections, room finishing schedule, and three dimensional rendering of their final design. Upon completion of this course, students will have a complete set of plans for a residential structure. Concurrent enrollment through TC3 is available. Prerequisite: DDP

COMPUTER AIDED DRAWING & DESIGN (CADD)

1 credit

This is an introduction to the use of computer application software for creating engineering drawings. Any student with a desire to enter an engineering or medical field will benefit from this course. This course is project oriented with all drawings being produced using industry standard CAD software. In addition to three dimensional drafting, students will apply three dimensional visualization techniques to create computer code similar to that used in industry for the operation of a CAD-CAM system. Upon completion of code generation students will operate CNC milling machines, CNC router and a CNC plasma cutter, converting computer designs into a tangible product. Concurrent enrollment through TC3 is available.

MANUFACTURING DRAWING

1 credit

This course will build on concepts learned in DDP. Students will design and draw a product that will later be mass produced by the students enrolled. The focus of this portion of the class is to gain an understanding of how a mass produced product is designed, taking into account material conservation, jigs and fixtures and advanced assembly techniques. Students will be asked to utilize material tracking techniques found in similar industrial settings. In addition to the mass produced product, students will learn the operation of machine tools, ranging from wood working to metal machining. The overall focus of this portion of the class is to gain an understanding of how machine tools and construction processes work, as well as various components thereof, ranging from fasteners, threads, and machine screws. Students will be tasked with completing a "C" clamp, craft knife body, and an aluminum casting project. Concentration will be on machine tool setup as well as advanced metal machining and manufacturing trouble shooting. Prerequisite: DDP

PRINCIPLES OF TECHNOLOGY

1 credit

Principles of Technology is a course in applied physics for students who plan to pursue careers as technicians or who want to keep pace with the advances in modern technology. This course blends an understanding of the basics and principles with practice. Principles of Technology is the study of ideas that technology is built upon. Students will learn the concepts of force, work, rate, resistance, energy and power. Units explain how these concepts relate to one another in mechanical, fluid, electrical and thermal systems. During this course students will put theory to practice as they conduct experiments that relate to real life scenarios, including but not limited to a fully functional go-kart.