

COURSE DESCRIPTIONS

Middle School Courses

ART COURSE DESCRIPTION

ART 6 and 7

Required 6th – 7th grade

This outline is a general guide to familiarize students and parents with an overview of these courses. It is an approximation of the content and objectives of the courses.

These courses are designed to nurture creative growth and develop artistic interest and technique within each individual. The courses are also designed to appeal to a wide range of students not just those who have the ability and desire to produce art. Art 6 and 7 is directed at acquainting students with many different aspects of art rather than involving them in in-depth learning in one aspect of art.



Broad Instructional Objectives:

1. To nurture each student's self-understanding, self-confidence and self-acceptance through the development, and expression of personal form of visual self-expressions.
2. To provide opportunities for exploration, experimentation, skill development, and expression through a variety of art media, tools, materials and processes.
3. To develop each individual's sense of planning, executing and evaluating as a necessary part of decision making in visual arts experiences.
4. To provide experiences in visual arts that are appropriate challenges to a student's capacities to respond to an expressive manner.

ENGLISH COURSE DESCRIPTIONS

English 7

Required 7th grade

The primary objective in 7th grade English is integrating writing, thinking, speaking, and listening with literature. We will read a variety of texts in several genres and formats. Students are taught reading comprehension, vocabulary, and an understanding of literary genre through the use of the text. Included in the course is creative writing, and introduction to the research paper, and a dive into critical examination of the texts and the authors who create them.

English 8

Required 8th grade

We will read a variety of texts in several genres and formats. We study reading comprehension, critical thinking, writing, and vocabulary. In addition, students are guided through the process of writing research papers, essays, and creative projects. Students write and read frequently, and develop their writing, verbal communications, reading, and critical reading skills while examining works from Shakespeare to Wilfred Owen; from cornfields to the Vietnam War.

FOREIGN LANGUAGE COURSE DESCRIPTION

Spanish 7 & 8

Required 7th and 8th grade

This is a beginning level course that introduces students to the Spanish language, as well as to Spanish and Latin American cultures. In 7th and 8th grade Spanish, students will learn a general introduction to the Spanish language including: sound systems, 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. 2 year completion = 1 credit of high school Spanish.

HEALTH COURSE DESCRIPTION

Health 8

Required 8th grade

The goal of this course is to help make students aware of issues surrounding their lives, including their health, choices they are faced with, decision making, how their body works, and who they are, and who they have potential to become. Material to be covered includes, but is not limited to: growth and development stages, body systems, relationships, emotions, healthy communications, problem solving skills, managing stress, disease, nutrition, drugs and medication, alcohol, tobacco, healthy family systems, environmental health, STDs and AIDS.

HOME & CAREER COURSE DESCRIPTIONS

6th Grade Home & Career Skills

Required 6th grade

Emphasis is put on decision making, problem solving, and management. Introduction to cooking and meal planning including basic nutrition is discussed. Advertising, personal development and basic childcare are also covered. An introduction to sewing unit includes using the sewing machine and hand sewing techniques in completing a project.

7th Grade Home & Careers

Required 7th grade

This course involves learning the applications of decision making, problem solving, and management. Students will also become knowledgeable about the world of work, exploring career options, relating personal skills, aptitudes, and abilities for future career decisions. Home safety and personal development will also be covered.

MATH COURSE DESCRIPTIONS

Math 7

Required 7th grade

The purpose of this course is to gain competence in computational skills and to develop logical thought process and problem solving techniques. Course topics include: work with rational numbers, decimals, percents, ratios and proportions, integers, equations, exponents, introductory geometry, graphing basics, perimeter, area and volume, computational shortcuts, reasonableness of answers, statistics, introductory probability, and word problems.

Math 8

Required 8th grade

In eighth grade math students will learn a variety of topics including:

1. Formulating and reasoning about expressions and equations, including modeling an association in bivariate data with linear equations, solving linear equations, and systems of linear equations.
2. Grasping the concept of a function and using functions to describe quantitative relationships.
3. Analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

MUSIC COURSE DESCRIPTIONS

Junior Band

7th – 8th grade elective

This class continues where elementary band left off. Students continue to study basic music concepts and different styles of music (ex. jazz, pop, marches, etc.). Students receive one lesson per week. Requirements: class attendance, 2 to 3 concerts, lesson attendance, and the Memorial Day parade.

Junior Chorus

7th – 8th grade elective

Students will have the opportunity to study various vocal techniques and basic music concepts, as well as different styles of music (ex. jazz, pop, spirituals, madrigals, etc.). Students may participate in voice lessons. Requirements: class attendance and 2 to 3 concerts.

SCIENCE COURSE DESCRIPTIONS

Life Science 6

Required 6th grade

Unit 1: Life, methods of science, and life structures

Unit 2: Kinds of animals, vertebrates, animal life, and animal reproduction

Unit 3: Kinds of plants, plant life, and plant reproduction

Unit 4: Protists, fungi, monerans, and disease

Unit 5: The human body, circulation, nutrition, control and regulation

Unit 6: Principles of heredity, human heredity, descent and change

Unit 7: Ecology, conservation, and human influence

Earth Science 7

Required 7th grade

Curriculum includes observation and measurement of the environment and its changes measuring the earth, earth motions, energy in earth processes, weathering, erosion and interpreting geologic history.

Physical Science 8

Required 8th grade

Unit 1: Measurement and motion

Unit 2: Classification of matter

Unit 3: Patterns of matter

Unit 4: Changes in matter

Unit 5: Light and sound

Unit 6: Energy resources

SOCIAL STUDIES COURSE DESCRIPTIONS

Social Studies 6

Required 6th grade

The course is a study of world history. It will cover the history of all regions of the world past and present. It will follow the guidelines set forth by the New York State Learning Standards, as well as the New York State Curriculum for Social Studies. Information from the Common Core Standards will also be implemented where applicable. A local final exam will be given.

Social Studies 7

Required 7th grade

This course is a study of American history from our beginning to the end of the Reconstruction Period after the Civil War. Emphasis will also be placed on the history of New York State. This course will follow the guidelines set forth by the New York State Learning Standards, as well as the New York State Curriculum for Social Studies. Information from the Common Core Standards will also be implemented. A local final exam will be given.

Social Studies 8

Required 8th grade

This course is the second half of a two-year study into American history. It is designed to prepare the student with an understanding of American life since the Civil War to the present. The student will gain knowledge of key historical people, places, and events. This course will follow the guidelines set forth by the New York State Learning Standards, as well as the New York State Curriculum for Social Studies. Information from the Common Core Standards will also be implemented. A local final exam will be given.

TECHNOLOGY COURSE DESCRIPTIONS

STEM 7 & 8

Required 7th & 8th grade

This course is an introduction to technology, focusing on the development of problem solving skills and technological literacy. Topics covered will include the design process, drafting, production, communication, transportation, power and energy, and electronics. Students will complete various hands-on activities and projects throughout the course.

High School Courses

ART COURSES DESCRIPTIONS

Studio in Art

9th – 12th grade elective
1 credit

This outline is a general guide to familiarize students and parents with an overview of this course. It is an approximation of the content and objectives of the course. This course will have a “studio – type” atmosphere. Students will be given basic instruction and exposure to techniques specific to various mediums.

The student is encouraged to develop creative ideas through projects that are relative to media and techniques.
No course prerequisites.



Broad Instructional Objectives:

1. To enhance student's awareness of various media and techniques.
2. To develop proficiency in the use of tools and materials associated with various media.
3. To promote self-confidence and self-expressions through works of art.

Units of Study

Each marking period will begin with an introduction to a specific medium or mediums. Once that medium or center has been introduced the student may decide to continue to use that medium whenever they want or combine it with other previously introduced mediums. The following represents the typical format of the course:

1st marking period – **DRAWING/COLLAGES** – The students will be introduced to basic methods of observational drawing including still-life & figure drawing. Students will then explore a variety of drawing mediums such as: pastel, charcoal, pen & ink, pencil & color pencil. The student will also be introduced to a variety of collage techniques and use of composition in works of art.

2nd marking period – **PAINTING/PRINTMAKING** – The students will be introduced to basic theories & techniques of painting and the use of color. Mediums explored include: watercolor, tempera, acrylic, and mixed media. The student will also be exposed to a variety of printmaking techniques including linoleum, mono printing & silk screening

3rd marking period – **3-D MEDIA** – The students will be introduced to sculptures and will create sculptures with a variety of 3 dimensional media such as: clay, wire, plaster, and paper mache.

4th marking period – **ART APPRECIATION** – The students will view and study various art movements and create art works that have the same characteristics as the assigned art movement. In this marking period, the students will use the skills and knowledge gained from the previous three marking periods and chooses the medium that best expresses that art movement.

Drawing and Painting

10th – 12th grade elective
1 credit

This outline is a general guide to familiarize students and parents with an overview of this course. It is an approximation of the content and objectives of the course. The rate of progress may vary depending upon class pace with each project and assignment.

A yearlong course designed for those students who, upon having completed the introductory art course (Studio in Art), wish to further their knowledge in drawing and painting. This course is intended to teach advanced techniques in drawing and painting so that these students can better express their personal creativity. This course will also expose the student to the creative ideas of master artists and their influence on our world.



Broad Instructional Objectives:

1. To identify the different techniques involved with drawing and painting.
2. To demonstrate proficiency in the use of tools and materials used in drawing and painting.
3. To develop self-expression through a work of art.
4. To demonstrate advancement in artistic achievement above that demonstrated prior to the course.

This course is very much a “studio” type classroom. Participation and valuable use of class time is very important.

Units of Study

Drawing:

- Emphasis will be placed on observational drawing – figure, still-life, and outdoor landscape drawings.
- Value studies – charcoal, pencil, and pen & ink.
- Mixed Media – combining drawing mediums, and combining drawing mediums with other mediums.
- Mediums used include: charcoal, pastel, oil pastel, color pencil & scratchboard.

Painting:

- Emphasis will be placed on elements of color.
- Students will also explore color value, and a variety of color schemes (complimentary, monochromatic, etc.).
- Mediums used include: tempera, watercolor, acrylic and possibly oil painting.

Portfolio Art

10th – 12th grade elective
1 credit

A year long advanced course for those students who have successfully completed all other art courses in the school.

This course is designed for the SERIOUS ART STUDENT, who wishes to further their art training and begin to develop their own artistic style. This course will be **self-directed** in that the student is responsible for the progression and sequence of the projects. The instructor will serve as an advisor-giving suggestions/ideas for project work and mediums to explore. The **works created in this course must be of high quality** and used to develop the student's portfolio, which can be used for admittance into a two or four year institution of higher learning.



Studio in Digital Media and Graphic Design

10th – 12th grade elective

1 credit

This outline is a general guide to familiarize students and parents with an overview of this course. It is an approximation of the content and objectives of the course. The rate of progress may vary depending upon class pace with each project and assignment.

An advanced course which **can only be elected after** the student has successfully completed a **full year of Studio in Art**. This course is a yearlong introduction to the creative use of media arts through a student's involvement in computer graphics, graphic design, printmaking, digital photography, and animation.



Broad Instructional Objectives:

1. The student will become familiar with, and explore uses of a wide range of media-oriented technology through the use of the latest computer hardware & software.
2. The student will explore and experience a variety of graphic design computer software and their applications.
3. The students will be exposed to the variety of career opportunities in commercial art/graphic design.
4. The student will become aware of the variety of the variety of visual communication media, their tools, materials and techniques.

Units of Study

The units are broken down by semester. In the first semester the emphasis will be on computer graphics and the basics of digital photography along with application of Adobe Photoshop & Adobe Illustrator. Compositional skills and image-editing techniques will be learned along with general photographic concepts. Students will learn to use layers, crop images, color & lighting concepts, hue & saturation and various special effects. The second semester will be spent using design as a manner of visual communication using other 2 dimensional mediums such as : printmaking, silk screening and advertising design.

Ceramics and Sculpture

10th – 12th grade elective
1 credit

This outline is a general guide to familiarize students and parents with an overview of this course. It is an approximation of the content and objectives of the course. The rate of progress may vary depending upon class pace with each project and assignment.



An advanced course that can only be elected after the student has successfully completed a full year of Studio in Art.

In the **sculpture** portion of the course the student will be provided with various aesthetic and technical experiences so that the student will be able to understand and appreciate the art form, acquire dexterity, sensitivity, and mastery of technique to control various mediums.

The **ceramics** portion of the course is designed for the student who is interested in working with clay. This part of the course also includes use of the potter's wheel, the creation of ceramic sculpture using a variety of hand-building techniques, and the use and properties of a variety of ceramic glazes and other finishing techniques.

Broad Instructional Objectives:

1. The student will become more aware of various three-dimensional media and their tools, materials, and techniques.
2. The student will become proficient in the basic hand-building techniques in ceramic sculpture.
3. The student will explore and experience the use of the potter's wheel and its techniques.
4. The student will be exposed to, and develop, an appreciation for contemporary and master artists and their works in a variety of three-dimensional media.

This course is very much a "studio" type classroom. Participation and valuable use of class time is very important.

Units of Study

Ceramics:

- Hand Building Techniques: coil, slab, & pinch, also designing tiles.
- Wheel Throwing Techniques: centering, creating a cylinder, experimentation with different forms.
- Glazing & finishing: use of a variety of glazes and underglazes also use of colored slips and stains for finishing of pieces.

Sculpture:

- Plaster
- Wire
- Paper Mache
- Found Object (Junk)

Studio in Media Arts

10th – 12th grade elective
1 credit

This outline is a general guide to familiarize students and parents with an overview of this course. It is an approximation of the content and objectives of the course. The rate of progress may vary depending upon class pace with each project and assignment.

An advanced course which **can only be elected after** the student has successfully completed a **full year of Studio in Art**. This course is a yearlong introduction to the creative use of media arts through a student's involvement in computer graphics, graphic design, printmaking, digital photography, and animation.



Broad Instructional Objectives:

5. The student will become familiar with, and explore uses of a wide range of media-oriented technology through the use of the latest computer hardware & software.
6. The student will explore and experience a variety of graphic design computer software and their applications.
7. The students will be exposed to the variety of career opportunities in commercial art/graphic design.
8. The student will become aware of the variety of printmaking media, their tools, materials and techniques.

Units of Study

The units are broken down by semester. In the first semester the emphasis will be on computer graphics with an introduction to computer animation and the basics of digital photography along with application of Adobe Photoshop & Adobe Illustrator. Compositional skills and image-editing techniques will be learned along with general photographic concepts. Students will learn to use layers, crop images, color & lighting concepts, hue & saturation and various special effects. The second semester will be spent using design as a manner of visual communication. Printmaking, silk screening and advertising design are also fields of study that are explored.

BUSINESS COURSE DESCRIPTIONS

Accounting

10th – 12th grade elective
1 credit

This course is designed to give the student a basic understanding of the accounting process and knowledge of accounting in a business situation. A few of the topics covered will be: the accounting cycle, recording transactions as debits and credits, cash journals, balance sheets, checkbook reconciliation and income and expenses statements. This is one of a number of courses that may be used as part of the 5 unit business sequence, which may be substituted for the foreign language requirement needed to earn a Regents diploma.

ACE Accounting Practices

11th – 12th grade elective
4 credits

This college level class is a half year course that is offered in the fall. In this course, students will analyze, journalize, and post business transactions for both service and merchandise businesses. They will prepare a trial balance, income statement, statement of owner's equity, and a balance sheet for a service business from a worksheet. Students will learn how to interpret, record, and reconcile business transactions for a checking account and a petty case

account. Finally, they will calculate and journalize all transactions for the payment of payroll, payroll related taxes, and insurance.

ACE Business Communications

10th – 12th grade elective
3 credits

This college level class is a half year course that is offered in the opposite semester of ACE professionalism. Students will learn effective techniques for oral and written communications. They will learn how to analyze and write letters, memos, and business reports. Finally, proficiency in language mechanics will be assessed.

Business Law

12th grade elective
1 credit

This course touches the lives of people in their daily activities. It is law that arises from life experiences – from buying a burger in a fast-food restaurant to getting married; from driving a car to getting a job; from being stopped by the police to getting a divorce. The topics of buying and insuring a car, renting an apartment, buying a house, getting married, having a marriage annulled, obtaining a divorce, and purchasing on credit are given thorough coverage. In addition, some of the most common crimes and torts committed by young adults are discussed. Included in the discussion are drug abuse, traffic violations, the right of police to search vehicles, vandalism, shoplifting, and the court system.

Business Math

10th – 12th grade elective
1 credit

The purpose of this course is to study math skills that are used in everyday life. We will examine many different types of math problems and learn to use critical thinking skills that are imperative to solving the types of problems that we all deal with on a daily basis. We will apply these skills to real life situations throughout the year and develop a strong math background that will be beneficial for success.

ACE Business Math

11th – 12th grade elective
3 credits

This college level class is a half year course that is offered in the spring semester in replace of ACE accounting. Students will learn how to use the four arithmetic processes to learn basic business math applications such as: payroll, depreciation, simple interest, bank discounts, insurance, taxes, markup, and trade and case discounts. This course will also address the basics of a financial statement analysis and an introduction to business statistics.

Career & Financial Management

9th – 12th grade elective
1 credit

Students will have the opportunity to learn about features of our economy, explore a variety of careers, learn skills and competencies needed to be successful in the workplace, and how to become financially literate.

ACE Professionalism

10th – 12th grade elective
3 credits

This half year college course is offered the opposite semester of ACE business communications. Students will develop an understanding of individual and workplace needs as

they related to professionalism, team building, and career growth. Topic areas include human relations, business ethics, business etiquette, team building concepts, and career enrichment.

COMPUTER/BUSINESS COURSE DESCRIPTIONS

Business Analysis/Business Computer Applications (BABCA) 9th – 12th grade elective
1 credit

Course content emphasizes business transactions, the basic business and the systems approach to business operations. The student also experiences specific applications of computer technology related to business and marketing. Emphasis is placed on using the computer as a tool in business and to solve business problems. Specific applications covered are word processing, databases, spreadsheets, and computer graphics. New York State Proficiency exam.

Career & Financial Management 9th – 12th grade elective
1 credit

Students will have the opportunity to learn about features of our economy, explore a variety of careers, learn skills and competencies needed to be successful in the workplace, and how to become financially literate. Other topics will include resume formatting and job interviewing skills.

Principles of Marketing 11th – 12th grade elective
1 credit

This course is an introduction to the important part that marketing plays in our economic system. Student will have the opportunity to explore past and current trends and innovations influencing the marketing system and speculate on future trends relating to their career goals. Students will then precede to a more in-depth study of various subsystems of marketing, such as marketing research, promotions, personal selling, distribution and retail operations. Sports and entertainment marketing will also be incorporated into study.

21st Century Technology 10th – 12th grade elective
1 credit

This course introduces students to digital video production. Students meet daily for 30 minutes and compose the morning announcements routinely. Students are also required to broadcast live morning announcements each morning before homeroom. Topics include video formatting, green screening, transition effects, journalism and field reporting, and public speaking.

Intro to Coding 10th – 12th grade elective
1 credit

This course is designed to allow the student the opportunity to explore a variety of computer applications. There are no prerequisites for this course, although it would be helpful if students had completed BA/BCA and 21st century technology. Topics covered will include: history of computer programming, programming, human coding, formatting, game design, graphics and fundamental algorithms and functions.

DRIVER EDUCATION COURSE DESCRIPTION

Driver Education

8th – 12th grade elective
½ credit

A limited number of students may take this course during the school year; therefore, preference is given to seniors, juniors, etc. by age. In order to take this course, a student must be 16 years old. The course involves both classroom and in-car time. You will learn the rules and regulations governing good driving and will have an opportunity to practice them in an actual driving situation. It is recommended that a student have a learner's permit prior to taking the course.

ENGLISH COURSE DESCRIPTIONS

High school English at Whitesville Central School is a four-year program. The English Regents, a graduation requirement, is given at the end of the junior year. In grades 9-12 students are provided with regular and varied opportunities to read both literature and informational texts, to write, to think critically, to listen, and to speak. Because of the recursive nature of language arts development, students are expected to build on the skills from the previous year. Students in every grade, for example, write expository essays; however, the complexity of these essays and the expectations for student performance increase as one progresses from the ninth grade to the twelfth grade. Moreover, while there are common elements across grade levels, instruction within classes is adapted to meet the developmental needs of students as they work to achieve excellence in English and the rigorous standards of the Common Core.

English 9

Required 9th grade
1 credit

The ninth grade English curriculum is drawn from a shared list of classic and new works of literature that spans the variety of genres, and some of the texts dovetail with topics covered in global studies. Students will read informational texts that enhance and expand on the literature they read. Students will also sharpen their skills in writing different sorts of essays, ranging from personal reflections to argumentative papers including an introduction to research papers.

English 10

Required 10th grade
1 credit

In this course sophomores study many forms of literature: short stories, poetry, essays, fiction, nonfiction, and drama. Students explore and craft varied writing assignments, from memoir to thematic essays to argumentative essays. They also continue to refine and develop their research skills.

English 11

Required 11th grade
1 credit

This course focuses primarily on American literature and the informational texts to accompany it. Classics such as *Of Mice and Men*, *To Kill a Mockingbird*, and *The Great Gatsby* are the literature focal points of the junior year. The vocabulary, reading, and writing experiences help to prepare all eleventh graders for the English Regents Exam at the end of the year.

English 12

Required 12th grade
1 credit

Seniors will have the opportunity to read contemporary literature like *The Things They Carried* and classics such as *Frankenstein* as well as accompanying informational texts. Students will write an argumentative research paper in accordance with MLA guidelines to fulfill their graduation requirements.

ACE Comp I

Essay writing designed 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 include expository writing, argumentation, and research techniques.

ACE Comp II

Writing course designed to advance critical and analytical abilities begun in English 1010. Students will write literary analysis essays on works of fiction, poetry, drama, and film – focusing in on the analysis and deconstruction of the methods and messages of literature.

FOREIGN LANGUAGE COURSE DESCRIPTIONS

Spanish I

Required 9th grade Regents
1 credit

This course will reinforce the skills learned in Spanish 7 and 8: 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 tense and future. Students will be expected to begin to apply them in their writing and speaking.

Spanish II

10th grade elective
1 credit

This course begins with a review of the major points covered in Spanish I and then leads to an introduction of new vocabulary, structures, and expressions. Students will begin to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses, and grammatical concepts such as the conditional and subjunctive mood.

Spanish III

11th grade elective
1 credit

This course builds upon knowledge gained in Spanish I and II. The course is a continuation and recycling of knowledge acquired in Spanish I and Spanish II, 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.

HEALTH COURSE DESCRIPTION

Heath 10

Required 10th grade
½ credit

The goal of this course is to help make students aware of issues surrounding their lives including: their health, choices they are faced with, decision making, how their body works, and who they are, and who they have potential to become. Material to be covered includes, but is not limited to: mental health, emotions, problem solving skills, managing stress, disease, nutrition, drugs and medication, alcohol, tobacco, reproduction, environmental health, STDs, AIDS, teen wellness issues, and safety.

MATH COURSE DESCRIPTIONS

Algebra 1

Required 9th grade regents
1 credit

The main focus of this course is to extend the students conceptual understanding of math, rather than the computational understanding that the students focused on in their previous math courses. Topics that will be covered include: understanding structure in expressions, how to write expressions, interpreting the structure of polynomial and rational expressions, and how to use arithmetic in expressions, as well as learning to create expressions. Students will also further their knowledge of equations and inequalities, the role of reasoning, solving equations, and how to solve equations and inequalities by graphing. Time will also be spent on functions, arithmetic, and geometric sequences and their relationships to linear and exponential models, as well as an introduction to statistics.

Geometry

10th-12th grade elective
1 credit

The main focus of this course is to introduce students to proofs. Students will learn congruence in terms of rigid motions and how to prove various theorems. They will also have the opportunity to use various tools, including a straightedge and a compass to demonstrate different geometric concepts. Students will understand formulas for area, circumference, and volume and learn about rotation objects around a line. Attention will be given to abstract reasoning, learning how to classify triangles, and using the Pythagorean Theorem with right triangles. Students will learn to use trigonometric ratios, how to apply different theorems to circles, as well as study relationships among segments on chords, secants, and tangents. Finally, students will learn how to draw the graph of a circle in the coordinate plane.

Algebra 2 Common Core

11th – 12th grade elective
1 credit

This is the capstone course of the three units of credit required for a Regents diploma. This course is a continuation and extension of the two courses that preceded it. While developing the algebraic techniques that will be required of those students that continue their study of mathematics this course is also intended to continue developing alternative solution strategies and algorithms. The families of functions to be studied will include: polynomial, absolute value, radical, trigonometric, exponential, and logarithmic functions. Problem situations involving direct and indirect variation will be solved. Problems resulting in systems of equations will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms. Data analysis will be extended to include measures of dispersion and the analysis of regression that model functions studied throughout this course. Associated correlation coefficients will be determined, using technology tools and interpreted as a measure of strength of the relationship. Arithmetic and geometric sequences will be expressed in multiple forms and arithmetic and geometric series will be evaluated. Binomial experiments will provide the basis for the study of probability theory and the normal probability distribution will be analyzed and used as an approximation for these binomial experiments. Right triangle trigonometry will be expanded to include the investigation of circular functions. Problem situations requiring the use of trigonometric equations and identities will also be investigated. More information on this course will be provided once it has been released.

Pre-Calculus

12th grade elective
 $\frac{1}{2}$ credit

The purpose of this course is to prepare students for calculus and other upper level math courses that they may study upon pursuing a higher level of education. In this course, we will review and expand upon topics that the students have learned throughout their years of high

school math. This includes, but is not limited to topics such as: functions, graphing, determining intervals that satisfy a given condition, solving and applying various properties of trigonometric functions, and solving and applying various properties of logarithmic functions. In this course we will also begin to discuss two of the fundamental topics of calculus, namely limits and derivatives. You must take pre-calculus in order to take ACE calculus.

ACE Calculus

12th grade elective
4 credits

After successfully completing pre-calculus, students may take ACE calculus for college credit. Specific topics covered include: differential and integral calculus as well as incorporating algebraic and trigonometric functions. Students will understand basic theory and physical applications relating to calculus. Derivatives that are presented both algebraically and graphically are introduced as well as learning how to apply derivatives to velocity and acceleration. Finally, differentials and their use of approximations and indefinite and definite integrals with applications to areas and volumes will be covered.

MUSIC COURSE DESCRIPTIONS

Senior Band

9th – 12th grade elective
1 credit

This class will meet 3 times per week. The ensemble will study various aspects of technical musicality as well as different styles of music (ex. jazz, pop, marches, etc.). Requirements: class attendance, lesson attendance, 2-3 concerts, and the Memorial Day parade.

Senior Chorus

9th – 12th grade elective
1 credit

This class will meet 3 times per week. The ensemble will work on vocal techniques as well as various styles of music. Students will have the opportunity to take voice lessons and participate in various performances (ex. student showcase). Requirements: class attendance and 2-3 concerts.

ACE Fundamentals of Music

10th – 12th grade elective
3 credits

This college level course introduces: fundamental elements of pitch, rhythm, musical notation and symbols, major and minor scales, intervals, and tonality. Course work will involve both written and aural skills. This course is a prerequisite for ACE music theory.

ACE Introduction to Music Theory

11th – 12th grade elective
3 credits

This is a course for the serious music student due to the nature of being college level and the opportunity of earning college credit. In this course, students will learn: music notation, scales, modes, keys, intervals, and simple chord progressions. Basic music theory skills will help the students to learn how to write music, master playing and recording on the synthesizer and the keyboard, and to improve their all around musicianship.

Music Technology I

10th-12th grade elective
.5 credits

This introductory course is open to any student with the desire to learn about the ever-changing world of Music Technology. Students will explore the latest computer software and hardware

along with analog and digital recording. Students will leave this course with a basic understanding of sound systems, recording techniques and computer music.

Provisional Course Modules List & Lessons

My current list of modules for the course is as follows (these are only the titles of the modules - each one is broken down into sub-sections with more detail).

Module 1: Intro to GarageBand iPad app

Module 2: The Instruments

Module 3: How To Record A Song - Workflow and Steps

Module 4: Saving and Exporting Work

Module 5: The Lessons/Projects

- Rap My Name
- Dr Suess Grooves
- The 4-Chord Choose Your Own Adventure Song
- Classical Smash (record a classical theme and then remix)
- Chinese Lunar New Year Compositions
- Taiko Drumming
- The Live Loops Remix Project
- 5 Minute Mystery Radio Shows
- Video Game Composer
- Superhero Movie Soundtracks

ACE Introduction to Harmony

11th – 12th grade elective
3 credits

In this college level course, students will learn: harmonic analysis, modulation, melodic and harmonic dictation, and part writing. Music theory must be taken as a prerequisite.

OCCUPATIONAL EDUCATION COURSE DESCRIPTION

BOCES Occupational Center

11th – 12th grade elective
3 credits

You may receive an Occupational Education major through BOCES by taking 2 years of a two-year sequence.

The courses the BOCES Center in Belmont offers:

Animal Science	Media Communications
Technology	
Audio/Visual Production	Medical
Assisting	
Automotive Technology	Medical
Professions	
Carpentry and Construction Trades	Natural
Resources	
Collision Repair Technology	New Visions-Health
Professions	
Cosmetology	Power Equipment
Technology	
Criminal Justice	Product Design and
Manufacturing	
Culinary Arts	Project Lead the Way/Computer Aided
Design	
Early Childhood Education/Human Services	Welding and Metal
Fabrication	

PHYSICAL EDUCATION COURSE DESCRIPTION

Physical Education

Required 7th – 12th grades
½ credit per year

The Whitesville Central School physical education program provides a variety of different activities and chances to improve fitness and general physical health. This could include, but is not limited to: personal physical fitness, sport skills, game play, recreational activities, healthful living, and good sportsmanship. The goal of the program is to make students more aware of exercise habits and learn ways to improve them, adapt life skills and learn that sports can be enjoyed throughout life, and learn about other activities that will help keep them active and happy. There will be an underlining emphasis on maintaining a positive attitude and use of good sportsmanship throughout all units of study.

SCIENCE AND HEALTH COURSE DESCRIPTIONS

Physical Setting: Earth Science

Required 10th grade Regents
1 credit

In physical setting/earth science one of the requirements is that the pupil will successfully complete at least 1200 minutes of lab work and prepare a written record verifying this work. Curriculum includes: observation and measurement of the environment and its changes, measuring the earth, earth motions, energy in earth processes, weathering and erosion, and interpreting geological history.

Living Environment: BiologyRequired 9th grade Regents
1 credit

The Regents examination requires that the student complete 1200 minutes of lab work which may include field work and must be proficient in those skills specified in the biology laboratory skill evaluation form. Units of study are: biochemistry, human physiology, reproduction and development, transmission of traits from generation to generation, and ecology.

Physical Setting: Chemistry11th – 12th grade elective
1 credit

Regents chemistry has a mandated laboratory requirement of 1200 minutes. Units of study include: matter and energy bonding, acids and bases, atomic structure, periodic table, kinetics and equilibrium, electrochemistry, organic chemistry, and nuclear chemistry. Students need to have completed algebra and geometry, or be currently enrolled in geometry in order to enroll in chemistry.

Physical Setting: Physics11th – 12th grade elective
1 credit

Regents physics has a mandated minimum laboratory requirement of 1200 minutes. Units of study include mechanics, wave phenomena, electricity and atomic and nuclear physics. Algebra and geometry are prerequisites for physics.

Environmental Science11th – 12th grade elective
1 credit

Environmental science is the study of human impact on the world around us. Humans can be linked to both the degradation and conservation of the world's resources. In this course students will examine the effects of humans on our planet through group projects, open debates, and individual research papers.

High School Forensic Science:

Forensic Science is the application of science (chemistry, physics, and biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples.

SOCIAL STUDIES COURSE DESCRIPTIONS**Global History and Geography I**Required 9th grade
1 credit

Global I is the first half of a two year course culminating in the New York State Regents test at the end of the students 10th grade year. Global I will cover world history from the Neolithic Revolution through the Enlightenment (ex. Ancient River Valley's, world belief systems, Classical Civilizations, the Middle Ages, Renaissance, Scientific Revolution, and the Enlightenment). The course will highlight key themes and concepts that will be essential for the student to understand the world we live in.

Global History and Geography II

Required 10th grade
1 credit

Global II is the second half of the two part World History Regents in Social Studies. Global II will cover topics from the Enlightenment all the way to modern times. Topics that will be covered are the Enlightenment, Industrial Revolution, imperialism, nationalism, World War I, World War II, Cold War, and current events. The course will cover all key themes and concepts that will be essential for students to understand the current state of affairs we live in.

U.S. History and Government

Required 11th grade
1 credit

This course is designed to help students understand America's past and present. Students will be given valuable insight into the following areas: American government, domestic and foreign policy, and immigration. Other topics that will be stressed are: the Western Frontier, social change, American reform movements, and political life of the 50's, 60's, 70's, and early 80's. Students will discover the underlying principles of American heritage that will better prepare them to become functioning members of today's society. At the end of the junior year, the student will take the New York State Regents examination. Students who fail the Regents Exam must take and pass the Competency Exam.

Social Studies 12

Required 12th grade
1 credit

This course is designed for the 12th grade student so that he or she will be able to function effectively and intelligently as a citizen and participant in today's ever-changing economic society. Special attention will be placed upon key concepts of supply and demand, inflation, opportunity, cost, and competition, as well as other economic principles. The course will enhance the student's rational decision-making process applied to all economic decisions. In addition, the student will benefit from studying the different economies of the world in relation to their own. The course will also include micro and macroeconomics, world economy, and international trade.

The second half of this course will be participation in government, which prepares the high school student with an understanding of how citizens interact with government on the local, state, and federal level. It encourages students to participate in the democratic process. Throughout this half of the course, key civic values will be enhanced. Students will also benefit from obtaining valuable insight into today's current events and how they affect them on a daily basis. All students must attend town and school board meetings and perform a community service project. Each student must pass a local exam, thus completing his or her graduation requirement in history.

ACE Sociology 1010 Elective

(3 credit hours) Corning Community College Grades 10-12

Description: Social and cultural factors in the origin, structure, and functioning of group life. Sub-divisions to be emphasized include social structure, culture, socialization, institutions, and stratification.

Course Description: Sociology is the scientific study of human society and social interaction. Sociology can be helpful for understanding our experiences in a more critical manner, as well as for utilizing those experiences more effectively. As an introduction to the discipline of sociology, this course is organized as a skills as well as a survey class. In addition to

acquainting you with the basic concepts used by sociologists to explain everyday social interaction; this course will provide you with the elementary skills needed to “decode” society and social life. It is also designed to help you gain some insights on how to act on this knowledge.

This course provides the basic concepts, methods, and theories common to sociology. The text contains examples and discussions of the actual work of sociologists as they study diverse social behaviors as well as controversies which are on-going within the discipline. As you develop your skills for understanding social life in the United States, you will be involved in making comparisons of social life as experienced by people worldwide. Lectures, class exercises, assignments and videos will be designed to engage you in thinking about the social world from a global perspective and enabling you to apply the sociological imagination to further your understanding of a broad range of global issues.

TECHNOLOGY DEPARTMENT COURSE OFFERINGS:

Design and Drafting For Production

Elective (grades 9-12)

- Design and Drafting for Production is a course for students interested in the world of STEAM, with a focus on design and engineering. Students are encouraged to identify problems, experiment through modeling and prototyping, and develop effective solutions in three dimensional forms.

Communications

- This course provides students with knowledge, skills, and experience in the different categories of communication and multimedia systems. These categories include visual communication, audio/video communication, photography and graphic design. Students will participate in various hands-on projects and activities as they work through the different categories associated with communication systems.

Introduction to Agriculture

- Introduction to Agriculture is a STEAM course that focuses on our natural world, the technology that is assisting and hindering it and the need to be more sustainable. This course is hands-on with both in and out of the classroom experiences. Students will learn how to plant, maintain, and harvest food as well as compost. They will use the design process to create solutions to problems in agriculture. They will also develop their abilities to work as a team and problem-solve.

Materials Processing

- Materials Processing will expose students to the various types of materials we use to create products, their characteristics and the processes used to form and shape these materials. Students will learn the basics of woodworking including cutting, sanding, fastening and finishing.

Home Repair/Construction Essentials

- Students will develop “Do-It-Yourself” skills as we work our way through various home repair scenarios. Students will also be exposed to basic home construction. This course will conclude with a group project, constructing a scaled version of an architectural structure.

World of Technology

Criteria and Recommendations

In March of 1998, a committee comprised of math, science and technology stakeholders met with State Education Department personnel to discuss criteria for a course that could be used in the third unit of math or science under the revised graduation requirements. A commencement level course in technology education may be used as the third unit of credit in science or mathematics but not both.

- World of Technology: This course is designed to provide students with a commencement level introduction to technology. Learning experiences designed for the course emphasize problem solving and critical thinking utilizing acquired math and science skills in a technology context and real world application. (NYSTEA developed course)

