Belleville Henderson Course Description Catalog

Introduction:

This course description booklet was prepared to acquaint you with our curriculum offerings. It contains brief descriptions of all courses available to students throughout their high school experience. It also describes the requirements for obtaining diplomas offered by NYS.

Students need to work closely with their school counselor in selecting courses and making decisions about their educational plans. Through group guidance and individual counseling, students will be helped to make selections based on abilities, interests, career goals, academic performance, and post high school plans. Students are also encouraged to talk to their teachers and parents about course selections.

If you have any questions or concerns, please call the Guidance Office Counselors at (315) 846-5825 or email Mr. Shaun Gagan (sgagan@bhpanthers.org) or Mrs. Karen Denny (kdenny@bhpanthers.org)

COURSES IN THIS BOOKLET WILL BE OFFERED BASED UPON THE NUMBER OF STUDENTS REQUESTS FOR THE COURSE AND STAFF AVAILABILITY

New York State Diploma Requirements Applicable to All Students Enrolled in Grades 9-12

Credit Requirements apply to all diploma types:
local, Regents, Regents with advanced designation

Subject	Units for Regents
English	4
Social Studies	4
Mathematics	3
Science	3
Second Language*	1
Health	½
Fine Arts Credits	1
Physical Education	2
Electives	3 ½
Minimum Units Required	22

Regents Diploma Requirements:
Students must score a 65 or higher on the following five New York State Regents and/or Common Core exams: Integrated Algebra or Common Core Algebra, a science, Global History, U.S. History and English.

Advanced Regents Diploma Requirements:
Students must score a 65 or higher on the following New York State Regents and/or Common Core exams: Integrated Algebra or Common Core Algebra, Geometry or Common Core Geometry, Algebra 2/Trigonometry or Common Core Algebra 2, 1 physical and 1 life science, Global History, U.S. History, and English. Find additional information in the link below.

*Students with a disability may be excused from the requirement for 1 unit of credit in World Language if so indicated on their IEP, but they must still earn 22 units to graduate

** Students who have an Individualized Education Plan (IEP) may have alternative requirements for Regents/Common Core Testing and diplomas.

Follow this link for Diploma Requirement details: New York State Diploma Requirements (nysed.gov)

English

English 9

The central purpose of this course is to extend student growth in all communication arts by building upon prior knowledge gained throughout the English curriculum. English 9 includes a survey of literature and an intense focus on writing in preparation for college level and entry workplace writing. Students will complete various standards-based assessments including research based writings and presentations. Reading comprehension, vocabulary development, oral communication, listening, discussing, understanding media, and utilization of technological skills will be applied to help students enhance their language arts skills in an effort to become lifelong learners adept with creative and critical thinking skills. **Prerequisite**: English 8

English 10

English 10 continues to build from skills learned in English 9, now with more emphasis on working toward career and college readiness as well as the ELA Regents in Grade 11. The course still has an emphasis on Speaking, Listening, Reading, and Writing. Students will continue to read and analyze literature from both fictional as well as informational texts. Students continue to develop their writing skills across a variety of purposes including research, expository, narrative, and letter writing, all with an emphasis on mechanics, usage, and grammar. This course aligns with Grade 10 ELA Common Core Standards. **Prerequisite**: English 9

English 11

The central purpose of this course is to expand student skills in all communication arts. These include reading comprehension, analyzing literature, writing, listening, speaking, discussing, using language, increasing and improving vocabulary, using media and technology, and employing advanced research skills. Students will apply these skills as they continue to increase their abilities as creative and critical thinkers. The goal of this course is for students to exhibit their ability to meet grade-level expectations by successfully completing embedded course assessments, including writing on-demand and to help students become successful on the mandated English Regents Exam. **Prerequisite**: English 10 **Regents Exam:** yes

English 12

English 12 is a required course that will enable students to become skilled readers of wide range of literature, including prose, poetry, and short stories. Students are expected to read and respond to a variety of literature in a group setting, independently and through written response. All facets of language arts - listening, speaking, reading, writing will be covered. The study of language in use – grammar, mechanics, sentence structure, and usage will be incorporated as well. Students will also participate in a career unit that will prepare them for their future in the workforce. Skills such as interviewing, resume building and the creation of a cover letter will be emphasized. **Prerequisite**: English 11

English Continued

ENG101

English 101 students will employ strategies and techniques for successful academic essay research writing. The course is designed for students who demonstrate skill in the process of developing essays. Students will use a variety of methods and resources documented in the MLA style. Students complete diverse, predominantly non-fiction reading and writing assignments designed to enhance their ability to write 4-5 complex essays for varied purposes, directed to academic audiences. Writing a research paper that defends an arguable assertion is required for students to complete the course.
Successful completion of this course satisfies SUNY General Education learning outcomes. Some work that students do in this course (tests, papers, projects) may be retained by Jefferson Community College in order to demonstrate to SUNY overall levels of student achievement in General Education.
Prerequisite: 90 on NYS English Regents or by APT, 90 overall high school average, 500 or higher on SAT Writing and Language, 22 or higher on ACT Writing Test **College Credit**: yes

ENG102

English 102 students will employ strategies and techniques for reading, analyzing, interpreting, and evaluating fiction, poetry, and drama. Readings will include literature of merit by male and female authors from diverse time periods, thematic areas, and cultural perspectives. Students will complete a variety of writing assignments designed to develop skills in literary analysis and will write formal, literature-based essays on the three genres. This course is designed for students who have already demonstrated college-level skills in essay writing and provides a foundation for upper-level literature courses.
Successful completion of this course satisfies SUNY General Education learning outcomes. Some work that students do in this course (tests, essays, projects) may be retained by Jefferson Community College in order to demonstrate to SUNY overall levels of student achievement in General Education.
Prerequisite: ENG101 **College Credit**: yes

Social Studies

Global History 9

The Global History and Geography course is divided into two years and is designed to focus on the five social studies standards, common themes that recur across time and place, and eight historical units. This course examines the development of World History in a variety of regions and civilizations. It considers the major historical eras from 4000 B.C. to around 1750 A. D. There is a thorough analysis of the methodology of historical study. There is a local assessment in June that mirrors the New York State Regents examination that students will be required to take and pass in June of their sophomore year. **Prerequisite:** Social Studies 8

Global History 10

This course is a continuation of Global History 1. This course examines the major historical trends during the period 1750 A.D. to the present. Considerable emphasis is given to current events as they relate to the historical patterns of the last two centuries. Much of the course work will focus the student's attention on the level of reading and style of writing necessary for successful completion of the New York State Regents exam in Global History and Geography. **Prerequisite:** Global History 9 **Regents Exam**: yes

US History & Government

U.S. History is a year-long course that examines the major events and turning points of U.S. history from the Early Exploration through the modern age. The course leads students toward a clearer understanding of the patterns, processes, and people that have shaped U.S. history. As students progress through each era of modern U.S. history, they will study the impact of dynamic leadership and economic and political change on the rise of the United States to global prominence, the influence of social and political movements on societal change, and the importance of modern cultural and political developments. Recurring themes lead students to draw connections between the past and the present, between cultures, and between multiple perspectives. **Prerequisite:** Global History 10 **Regents Exam:** yes

Government & Economics

The Government portion of this course aims to provide students with opportunities to become engaged in the political process by acquiring the knowledge and practicing skills necessary for active citizenship. Content specifications are not included so that the course can adapt to present local, national and global circumstances, allowing teachers to select flexibility from current events to illuminate key ideas and conceptual understandings. Participation in government and in our communities is fundamental to the success of American Democracy.

The Economics portion of the course examines the principles of the United States free market economy in global context. Students will examine their individual responsibility for managing their personal finances. Students will analyze the role of supply and demand in determining the prices individuals and businesses face in the product and factor markets. Students will study changes to the workforce in the United States, and the role of entrepreneurs in our economy. Students will explore the Stock Market and its effects on globalization. **Prerequisite:** US History & Government

Mathematics

Algebra 1A

This course is the first year of the foundation for high school mathematics courses. It is the bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations and inequalities, graphing linear and quadratic functions. Real world applications are presented within the course content and a function's approach is emphasized. **Prerequisite:** Math 8

Algebra 1B

This course is the second year of the foundation for high school mathematics courses. It is the bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations and inequalities, graphing linear and quadratic functions. Real world applications are presented within the course content and a function's approach is emphasized. **Prerequisite:** Algebra 1A **Regents Exam:** yes

Algebra 1 (9th Grade)

This course is the ninth grade one year of the foundation for high school mathematics courses. It is the bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations and inequalities, graphing linear and quadratic functions. Real world applications are presented within the course content and a function's approach is emphasized. **Prerequisite:** Math 8 **Regents Exam:** yes

Algebra 2/Trigonometry

This course extends the topics first seen in Algebra 1 and provides advanced skills in algebraic operations. Additionally, linear and quadratic functions and relations; conic sections; exponential and logarithmic functions; graphing; and sequences and series will be explored. Trigonometric topics include periodic functions, identities , and equations. **Prerequisite:** Algebra 1 or Geometry **Regents Exam:** yes

Mathematics Continued

Geometry

The Geometry is the second course of a three course sequence for high school students. Students will formalize more precise definitions to establish the validity of geometric conjectures through deduction, proof, or mathematical arguments. The concepts of congruence, similarity, and symmetry can be understood from the perspective of geometric transformations. Fundamental are the rigid motions: translations, rotations, reflections, and sequences of these, all of which are here assumed to preserve distance and angle measure reflections and rotations each explain a particular type of symmetry leading to insight into a figure's attributes. This leads to the triangle congruence criteria ASA, SAS, SSS, AAS and Hypotenuse-Leg (HL). Once these criteria are established using rigid motions, they can be used to prove theorems about triangles, quadrilaterals, and other geometric figures. Similarity transformations define similarity as a sequence of dilations and/or rigid motions that maps one figure onto another. Students formalize the similarity ideas of "same shape" and "scale factor" developed in the middle grades by establishing that similar triangles have all pairs of corresponding angles congruent and all corresponding pairs of sides proportional. These transformations lead to the criteria AA, SSS similarity, and SAS similarity for similar triangles. The definitions of sine, cosine, and tangent for acute angles are founded on right triangles and similarity, along with the Pythagorean Theorem and are fundamental in many mathematical situations. Students' experience with two-dimensional and three-dimensional objects is extended to include informal explanations of circumference, area, and volume formulas. Additionally, students apply their knowledge of two-dimensional shapes to consider the shapes of cross-sections and the result of rotating a two-dimensional object about a line. They reason abstractly and quantitatively to model problems using volume formulas. Students prove and apply basic theorems about circles and study relationships among segments on chords, secants, and tangents as an application of similarity. In the Cartesian coordinate system, students explain the correspondence between the definition of a circle and the equation of a circle written in terms of the distance formula, its radius, and coordinates of its center. Given an equation of a circle, students graph the circle in the coordinate plane and apply techniques for solving quadratic equations. **Prerequisite:** Algebra or Algebra 1A/1B **Regents Exam:** yes

Intro to Precalculus

A review of and extension on concepts presented in Algebra 2. Topics include specific functions (linear, quadratic, exponential, logarithmic, trigonometric, and polynomial). Emphasis will be on understanding the important concepts of each function type and using graphs and transformations to draw connections. Students will learn to use technology as a way to enhance their understanding and present ideas, both individually and as part of a team. **Prerequisite:** Algebra 2/Trigonometry **College Credit:** no

MTH098

Fundamentals of Mathematical Literacy This course is required of students whose math skills are identified as a pre-college by the college placement test. The course uses varying contexts, focusing on situations and techniques meaningful to college students, to promote mathematical problem solving, critical thinking, and writing skills. Topics include numeracy, proportional reasoning, algebraic reasoning, and modeling mathematical relationships. **Prerequisite:** Placement **College Credit:** no

Mathematics Continued

MTH185 Precalculus

This course is designed to prepare students for success in the study of calculus. Concepts and functions will be represented graphically, numerically, symbolically and verbally. Linear, quadratic, exponential, and logarithmic functions are reviewed. Critical thinking is developed as instruction focuses on the study of trigonometric, power, polynomial and rational functions and their operations. Students will be expected to demonstrate competence in the use of current technology as it applies to Precalculus topics. This course satisfies a SUNY General Education learning outcome or outcomes. This is taught through the JCC EDGE Program, which allows students the opportunity to use the course for high school and college credit since they have dual enrollment. **Prerequisite:** Intro to Precalculus **College Credit:** yes

MTH144 Elementary Statistics

This course provides a basic Introduction to statistics and its applications to mathematics, science, social science, and business. Emphasis is placed on calculating, interpreting, reading and reporting through writing, descriptive statistics. Topics include: The design of a statistical study, observational studies, experiments, graphs, tables, statistical notation, measures of central tendency, variability, probability, the normal distribution, correlation and regression. Students will be expected to read, summarize and interpret current newspaper and journal articles and/or conduct a survey and report the results. Students will also be expected to demonstrate competency with current technology. **Prerequisite:** MTH098 or Placement **College Credit:** yes

MTH221 Calculus 1

MTH 221 is the first course in the calculus sequence for students in mathematics, science, computer science, and engineering. Basic analytic geometry, functions, limits and continuity, derivatives of algebraic and trigonometric functions, chain rule, implicit differentiation, antiderivatives, definite integrals, Fundamental Theorem, and applications of derivatives and integrals form the core concepts. Students are required to develop and demonstrate literacy with current technology as it applies to the study of Calculus 1. This course satisfies a SUNY General Education learning outcome or outcomes. This is taught through the JCC EDGE Program, which allows students the opportunity to use the course for high school and college credit since they have dual enrollment. **Prerequisite:** MTH185 Precalculus **College Credit:** yes

MTH222 Calculus 2

MTH 222 is the second course in the calculus sequence for students in mathematics, science, computer science, and engineering. The theory of integration, techniques of integration, numerical approximation of integrals, the application of integration to the solution of word problems, and an introduction to sequences and series, power series, and Taylor and Maclaurin Series. Students are required to develop and demonstrate literacy with current technology as it applies to the study of Calculus 2. This course satisfies a SUNY General Education learning outcome or outcomes. This is taught through the JCC EDGE Program, which allows students the opportunity to use the course for high school and college credit since they have dual enrollment. **Prerequisite:** MTH221 Calculus 1 **College Credit:** yes

Science

Regents Earth Science

This is a NYS Regents course designed to give students an overview of Earth Systems through the study of Geology, Meteorology, Astronomy and Oceanography. Students investigate such areas as rocks and minerals, natural disasters, changing landscapes, celestial motion, weather, and water resources. During the course of the year, a wide variety of activities and laboratories will be introduced to the class. As a Regents science course, NYS requires that students meet a minimum requirement for laboratory time in addition to regular class time. Students will meet both during class time and laboratory time in order to meet these requirements. Additionally, students are required to hand in the written portion of the laboratory work before being allowed to take the Earth Science Regents Examination in June. **Prerequisite:** Enrolled in Algebra or higher level math **Regents exam:** yes

Regents Living Environment

This life science based course introduces the student to the essential characteristics of living organisms. Course topics follow the NYS curriculum and include: cells, cellular processes, genetics, reproduction, ecology, and evolution of organisms. Development of laboratory skills is a requirement of Regents courses. Students complete labs throughout the year and fulfill the NYS laboratory mandate for Regents exams. A Regents exam is given in this course. **Prerequisite:** Grade 8 Science **Regents exam:** yes

Regents Physics

Regents Physics is a course offered to 11th and 12th graders, and encompasses five main areas of study:
Mechanics, Work & Energy, Electricity & Magnetism, Wave Phenomena, and Modern Physics.
The course is wide-ranging, and offers many hands-on experiences for students. Some of the laboratory experiments include: determining the acceleration due to gravity, finding the elastic constant for a garage door spring, and determining the muzzle velocity of a projectile launcher. Physics has a lab period every other day. This course prepares students for college as well as the NYS Regents Examination in Physics. **Prerequisite:** Algebra, Living Environment, Chemistry **Regents exam:** yes

Regents Chemistry

This physical science based course introduces the student to the properties of matter, how it reacts with other matter, and how matter behaves. Topics follow the NYS curriculum and include: structure of atoms, formation of bonds, chemical reactions, and behavior of various types of chemicals. Students also complete labs throughout the year and fulfill the NYS laboratory mandate for Regents exams. **Prerequisite**: Earth Science **Regents exam:** yes

Anatomy & Physiology

This life science based course studies the structure and function of the mammalian body. Topics include: cells, tissue, skeletal system, nervous system, and skin. Students also may select body systems for further study. Research is also done focusing on disease and treatment. Several dissections are completed near the end of the year including cat dissection. This course is highly recommended for students interested in pursuing careers in medicine, dentistry, veterinary, and mortuary sciences, as well as those interested in physical education or massage therapy. This course has an emphasis on self directed study and would mirror a college level Anatomy and Physiology class. **Prerequisites:** Living Environment (average above 80 recommended) **Regents exam:** no

World Language

Spanish 9

Spanish 9, also known as Spanish II in neighboring districts, is a high school credit-earning course for those students who have passed Spanish 7 and 8 and also passed the Checkpoint A Regional Assessment Exam. In Spanish 9 students will review all of the skills learned previously as well as further expanding their vocabulary and adding the imperfect tense to their toolkit. Students are expected to maintain a conversation of at least 5 exchanges with their teacher and write an essay of 65 or more words. **Prerequisite:** Spanish 8 Checkpoint A class

Spanish 10

In Spanish 10, students aim to increase their fluency by expanding their vocabulary and introducing the future and subjunctive tenses into their speaking and writing skills. At the end of this course, students will complete the Checkpoint B Regional Assessment (formerly known as the New York State Comprehensive Regents Exam). Students will be expected to sustain a longer conversation with their teacher and write essays of 120+ words at this level. **Prerequisite:** Spanish 9 or Spanish II

Spanish 11/12

In Spanish 11/12, juniors and seniors take their Spanish skills to the next level by learning Checkpoint C-level grammar to read poetry, watch Spanish-language programming and read their first classic novel. Students will dig deeper into Spanish and Latin American culture and have the option of working toward learning the NYS Seal of Biliteracy on their diploma. Students may also opt to prepare for and take the Spanish CLEP exam for which they could potentially earn up to 6 college credits, depending on the score on their exam. **Prerequisite:** Spanish 10/Spanish III

World Language Continued

French 9

French 9, also known as French II in neighboring districts, is a high school credit-earning course for those students who have passed French 7 and 8 and also passed the Checkpoint A Regional Assessment Exam. In French 9, students will review all of the skills learned previously as well as further expanding their vocabulary and adding the imperfect tense to our toolkit. By the end of the year, students are expected to maintain a conversation of at least 5 exchanges with their teacher and write an essay of 65 or more words. **Prerequisite:** French 8 Checkpoint A class

French 10

In French 10 students aim to increase their fluency by expanding their vocabulary and introducing the future and subjunctive tenses into their speaking and writing skills. At the end of this course, students will complete the Checkpoint B Regional Assessment (formerly known as the New York State Comprehensive Regents Exam). Students will be expected to sustain a longer conversation with their teacher and write essays of 120+ words at this level. **Prerequisite:** French 9 or French II

French 11

In French 11, juniors take their French skills to the next level by learning Checkpoint C-level grammar to read poetry, watch French-language programming and read their first classic novel. Students will dig deeper into French and Francophone (French-speaking) cultures and have the option to start working toward earning the NYS Seal of Biliteracy on their diploma. Students will create a final project at the end of the year that encompasses all of the grammar and language skills they have acquired throughout the year. **Prerequisite:** French 10 or French III

French 12

In French 12, seniors continue to take their French skills to the next level by learning Checkpoint C-level grammar to read poetry, learn about classical French artists, watch French-language programming and continue reading classic novels. Students will continue digging deeper into French and Francophone (French-speaking) cultures and have the option to continue working toward earning the NYS Seal of Biliteracy on their diploma. Students will create a final project at the end of the year that encompasses all of the grammar and language skills they have acquired throughout the year. **Prerequisite:** French 11 or French IV

** French 9 and French 10 are offered in an online environment

Business

CCFM (Careers, Computing and Financial Management)

Prepare yourselves for life-long success after graduation! Gain hands-on experience through unique games, simulations, case studies, and interactive exercises. Spend up to three days job shadowing a professional of your choice! Play the stock market game with your classmates using thousands of virtual dollars. Design your own business. Become computer savvy with a variety of software programs to make you successful during high school, college, and the workplace. Learn important job-searching skills, including creating effective resumes and important interviewing techniques. Learn important financial literacy skills like maintaining your own checking account, maintaining good credit, making wise investments, and preparing income tax returns--which you'll need to become responsible consumers and citizens. **Prerequisite:** none

Business Law

Participate in exciting Mock Trials about murder, burglary, or robbery! Students will enjoy preparing for roles such as judge, attorney, various witnesses, bailiff, or jurors. Afterwards, we'll even go see an actual trial at the Jefferson County Courthouse. After examining criminal law issues, students will learn business and personal law which is related to their daily lives, both now and in the future. Students will learn about the law, buying and insuring a car, employment contracts, and renting an apartment. **Prerequisite:** none

Accounting

Accounting plays a vital role in the day-to-day activities of every business. This course is designed to provide students with a basic understanding of record keeping and financial management of a business. The course covers the entire accounting cycle for both a service and merchandising business. Learn by completing chapter exercises in journals or ledgers with some of the exercises being transferred to computer applications. Gain entry-level skills for employment, accounting experience you need in case you start your own business in the future, or necessary experience for the fast-paced accounting course you may be required to take in college. **Prerequisites:** none

Agriculture

Agricultural Science

Agricultural Science is designed for freshmen who wish to take a course that will expose them to agriculture.It is an overview of many different areas of agriculture from the history of agriculture, communication, FFA, soil science, environmental science, animal science, plant science, food science and mechanics. Students will get to work hands on with small animals and have the opportunity to become FFA members. **Prerequisite:** none **College Credit:** no

Animal Science

Animal Science is recommended for sophomores. Students will look in depth into topics such as animal systems, anatomy and physiology, digestion, nutrition, reproduction, genetics, diseases and careers in animal science. Students will get to create a producer's handbook for an animal of their choosing, which they will work on throughout the course. Students will get to work hands on with small animals. This course is available for dual-credit (3 credits) through Morrisville State College. **Prerequisite:** Suggested - Ag. Science **College Credit:** yes

Conservation Science

Conservation Science is recommended for seniors and juniors. We will review concepts of ecosystems and biomes, look at sustainability and the impact of humans on wildlife. Students will discuss and examine recycling, conservation, wildlife, plants, soil, water, air, renewable energy and current issues in agriculture and environmental science. Students will have the opportunity to compete in the Envirothon Competition in April held at the Thompson Park Zoo. This course is available for dual-credit (3 credits) through Morrisville State College. There is a cost, shall you choose to take this course for college credit. **Prerequisite:** Suggested - Ag Science **College Credit:** yes

Food Science

Food Science is recommended for sophomores, juniors or seniors. Students will take a look at the food system from farm to fork. Topics covered include raising and marketing beef, dairy and poultry; food safety, preservation and production. Students will have opportunity to work hands on growing and preparing their own food. **Prerequisite:** Suggested - Ag Science **College Credit:** no

Agricultural Leadership

Agricultural Leadership is offered every other day for a full year and is recommended for upperclassmen. Students will learn about the habits of effective leaders and develop the skills to become leaders in your school, home or in the community. Students will focus on writing abilities resulting in increased confidence in both areas. Students will be active participants in ice breaker type activities and classroom discussions! **Prerequisite:** Suggested - Ag Science **College Credit:** no

Agricultural Business

Agricultural Business is recommended for upperclassmen. Learn about starting a business, managing finances, assuming risk and planning for the future. Students will have their own enterprise that they use to apply knowledge to and follow along with throughout the course. This course is available for dual-credit (3 credits) through Morrisville State College. **Prerequisite:** Suggested - Ag Science **College Credit:** yes

Technology

Construction Technology

Ever thought about running your own business and producing your own products? If you have, this is the class to take! This is a great class to learn about the aspects of Manufacturing where students start up a company. The first half of the course is spent designing, producing, and marketing a product. The second half of the course is devoted to construction. Students will be instructed on the building of homes and buildings from the foundation to the roof. Students will make a scale model of a building using all of the proper techniques that would be used to make a full sized structure. At the end of the course, students will have the opportunity to build an actual shed out of 2X4's and plywood. The emphasis of this course is to train students to become contractors and entrepreneur's not construction crews. **Prerequisite:** none

Design & Drawing for Production (DDP)

DDP is an excellent backbone course for any student studying engineering, design, or architecture. Students will be introduced to sketching, tools used for mechanical drafting, lettering, and dimensioning. Students will complete working drawings, sectioning drawings, auxiliary views, and pictorial drawings. For the second half of the year students will work as a team in groups to produce drawings for a project. They will complete all necessary drawings for the designed project, then students will build the project to those specifications. For the last part of the course students will be introduced to computer aided drafting, where they will learn how to draw without a pencil. **Prerequisite:** none

Computer Aided Design & Architecture

This course will take concepts learned in DDP and apply these same ideas on the computer. Students entering this course must have basic drawing skills, computer skills, and mathematics skills. This course is designed for students interested in careers in engineering, architecture, construction, or design. The students will learn how to draw gears, gaskets, molds, mechanical devices, and architecture on the computer. The industry leader in computer design is used in this course (AutoCADD 2020 and Chief Architecture)
Prerequisite: none

Basic Woodworking

This is an introductory course teaching students basic woodworking and carpentry skills. Students will learn all shop safety procedures. An emphasis will be placed on students learning to use all the major woodworking tools properly. Students will be able to design and construct their own pieces of furniture, often including coffee tables, birdhouses, and signs. Students will also have access to use the CNC router to incorporated designs into their projects. Students will have time to work on sheds and other out buildings.
Prerequisite: none

Physical Education

High School Physical Education

Physical education is a course that focuses on developing skill, effort/motivation, knowledge/strategy, fitness, cooperation and personal responsibility. Students are exposed to a variety of different activities ranging from team sports to life long and leisure activities. Students complete a physical fitness test at the beginning and end of the school year to chart the progress they have made throughout the school year. **Prerequisite:** none

Health

High School Health

Health education instills in students the knowledge and skills needed to examine and make responsible health-related decisions in their own lives. Areas that students will study include; Drug Studies, Mental Health, Nutrition and Physical Activity, Diseases, Sexual Education, Dating Violence, and Healthy Relationships. **Prerequisite:** none

Art

Studio Art I,II & III

A hands-on introduction to the fine arts. Students will explore both 2 and 3D art. Some of the media will use are: drawing, painting, sculpture, ceramics, printmaking, mixed media, digital and art from other cultures. This course is designed to build art skills so that any student, regardless of ability, can improve and enjoy the creative process. The discovery of a variety of materials and techniques will help express ideas, build skills, and create artwork. Students will have the opportunity to reflect on art by critiquing both the work of others and their own. Studio art fulfills the art credit of a NYS regents diploma. It is also a prerequisite for all art electives. **Prerequisite:** none

Cultural Art

Cultural Crafts: Functional Decorative Art Around found around the world. Students will observe how other cultures decorate and design their environments. Students will create art inspired by other culture and your own. Traditional art techniques and materials, sewing, weaving, mosaics, metal tooling, bookmaking, batik, mask-making and more. **Prerequisite:** Studio Art I

Graphic Design

Graphic Design: The process of visual communication, and problem-solving through the use of typography (fonts), photography and images. Some might say: "the marriage of images and words" to convey a message, sell a product or idea.Other terms: Visual communication or communication. Students will work with Photoshop, Traditional Art Materials and Upcycled/Recycled materials of their choice. (Both 2D and 3D will be explored in this course.) **Prerequisite:** Studio Art I

Photography

Students will use digital photography equipment, theory and processes. Using their own digital camera or ones supplied, students will learn camera operation, composition, computer manipulation and creative expression using Photoshop. Upon completion, students should be able to successfully expose, digitally manipulate and print a well-conceived image. **Prerequisite:** Studio Art

Ceramics

Ceramics is a class where you will explore 3D art using clay. Students will have the opportunity to throw bowls, cups and/or mugs on a wheel, as well as learning how to sculpt, mold and build expressive artwork ideas in a creative way. Additionally students will explore glazing and the surprises it holds. The discovery of different techniques and choice of coloring help express personal ideas, build skills and create artwork. Ceramics covers the fundamental skills, knowledge, attitudes, and techniques necessary to begin understanding ceramics. The artwork of famous artists and the effects from different time periods in history will be explored and discovered. Building on the foundation of ceramics, students are challenged to expand their vocabulary of ceramic form and texture. Students will have the opportunity to reflect on art by critiquing both personal work and the work of others. **Prerequisite:** Studio Art

Drawing & Painting

Drawing and Painting is a class where students will explore 2D art, while using mediums such as charcoal, pencil, watercolor, colored pencil, oil pastels, acrylic paint, oil paint and oil sticks. This course is designed to advance skills developed in studio art. Through painting students will develop an understanding of color theory and painting skills. Regardless of ability students can improve and enjoy the creative process and self-choice. The artwork of famous artist and the effects from different time periods in history will be explored. Students will have the opportunity to reflect on art by critiquing both their personal work and the work of others. **Prerequisite:** Studio Art

Music

High School Chorus

Senior High Chorus is an elective for students in grades 9, 10 11, & 12 that meets 3 times per 6-day-cycle. It is for intermediate to advanced singers designed to promote academic achievement through music analysis, evaluation, and performance. Students will participate in an ensemble as well as have solo opportunities. Students will build on their musicality and knowledge of music reading. Repertoire will be from a wide variety of genres and styles. **Prerequisites:** none

Music Theory

Music Theory introduces the rudimentary aspects of melody, rhythm, harmony, form, texture and style analysis. The course follows a composition-based approach with emphasis on aural comprehension and sight-singing skills. The course also includes the study of intervals, keys (tonal centers), triads (chords), simple part-writing and rhythmic reading.
Prerequisites: ability to read basic music notation or by teacher recommendation

High School Band

High School Band is designed for 6th, 7th, 8th, and 9th year players, in grades 9 through 12. There are two components in elementary band instruction; students meet in a small group 40 minute lesson once every cycle on a rotating time schedule, and a 40 minute full band rehearsal each odd day for the whole year. Throughout lessons and band rehearsals, students are expected to perform with a sense of tone, breath support, intonation, rhythm, harmony and articulation. Band is a performance based class. Students will learn to improve their playing technique, read music, follow the conductor, and blend with the group. Students learn about the many aspects of performing for an audience, including proper stage presence and etiquette. Often times, the songs that are rehearsed and performed take us on journeys in which we learn about cultures or specific composers and/ or music styles.
There are two required concerts and 4 required parades per school year. There are several other performance opportunities that one may choose to take advantage of it one is interested. The study and performance of a NYSSMA solo in the spring is encouraged and can lead a student to be chosen for Bi-County and even Area All- State Festivals.
Prerequisite: in grade 9-12 and play an instrument

Online JCC EDGE Courses

Belleville Henderson Central School currently offers a number of Jefferson Community College courses that are instructed by a JCC instructor online, being completed by the student on their own time. Students earn one high school credit and 3 to 4 college credits for each course. Students must meet standards set by the college to enroll in these courses.

Courses currently offered at BHCS include:

BIO 106 HUMAN BIOLOGY
This one-semester laboratory course relates concepts of human anatomy and physiology to human behavior. Topics include cell and human organization; metabolic functions of the nervous system, reproductive system, musculoskeletal system, and cardiovascular system as they contribute to homeostasis; human inheritance and reproduction; and human evolution and ecology. Each topic covered will focus on adaptive mechanisms by which human physiology affects human behavior. BIO 106 is specifically designed to fulfill transfer requirements for Human Services majors. It is recommended that students take this course after completing any required noncredit coursework in Reading, Math, or English. High school biology strongly recommended. 4 cr. 3 lec. 3 lab.

ECO 101 MACROECONOMICS
Macroeconomics is a study of economic analysis as applied to problems of economic growth, business fluctuations, unemployment and inflation. Monetary and fiscal policies are evaluated as techniques used to achieve the economic goals of society. Prerequisite: Equivalent of MTH 125, 155, or higher. 3 cr. 3 lec

POL 121 INTRODUCTION TO AMERICAN GOVERNMENT
This course is an introduction to the American political system, including the Constitutional framework; legislative, executive, and judicial functions; as well as the nature of American political parties, interest groups, public opinion, social movements, political economy, and the role each plays in contemporary American life. 3 cr. 3 lec.

PSY 133 Introduction to Psychology
This course is a survey of the study of the mind and human behavior and is designed to foster understanding of psychology as a scientific, research based endeavor. This survey will acquaint you with the major concepts and terminology of the discipline and give you a better understanding of self and others as you learn about psychology from several different perspectives: psychology as an academic science, psychology in your own life, and psychology in the broader world. Prerequisite/corequisite: CLS 099 or CPT Reading Test Score of 65 or above and corequisite ENG 100 or CPT into ENG 101. 3 cr. 3 lec. (Departmental Standards Version of PSY 133, approved by Academic Affairs on 02/14/2013). This course fulfills the following SUNY General Education learning outcome: Social Sciences.

SOC 144 Introduction to Sociology
This course involves an Introduction to the scientific study of human society and social behavior. Emphasis is on the topics of: the sociological imagination/perspective; culture and society; socialization; groups and organizations; deviance; social stratification; basic social institutions and social change. Prerequisite/corequisite: ENG 100 or placement into ENG 101. 3 cr. 3 lec. (Departmental Standards Version of SOC 144, approved by Curriculum Committee on 9/26/19). This course fulfills the following SUNY General Education learning outcome: Social Sciences.

Bohlen Technical Center

The Bohlen Technical Center offers a wide range of career tech programs that focus on real world learning. The School Counseling Office has a complete list of the programs offered and the programs can also be viewed on the BOCES website at www.boces.com under the Career and Technical Education tab. The various programs are listed under the high school programs. Additionally, all 10th graders will receive a presentation of the programs during the first semester of their Sophomore year. Students and parents are encouraged to reach out to the School Counselor for more information.

All programs except New Visions Health are taken in 11th and 12th grades. New Visions is taken in 12th grade only. All programs taken at Bohlen Technical Center are 4 units. These units include any integrated credits, such as math or science.