

## **Burke School District Mission Statement**

Instilling a passion for lifelong learning in ourselves, our students, and our community!

### **Burke School District Philosophy/Mission**

In today's society, education is a continuous process of learning, not only for the present but for the future. Therefore, the district will provide an educational environment that promotes and enhances learning as a lifelong endeavor. In addition, the district believes that education is not just the development and refinement of mental capacity, but a process that assists the students in meeting their physical, social, aesthetic and emotional requirements.

The district will strive to provide stimulation and assistance so that each child develops in accordance with individual abilities, interests and potential. The responsibility of the school, therefore, is to help guide the individual in many and varied educational experiences so the he/she can develop into a wholesome, happy and productive person.

The district recognized the importance of the home as an influence upon the child and believes that a sympathetic, cooperative attitude between the teacher and parent is necessary in the development of a student's integrated personality.

The total staff of the school system constitutes an inestimable and lasting force in the development of the student. The teacher is the most significant influence in the school and must, therefore, possess and demonstrate dedication, enthusiasm and sensitivity. It is primarily the teacher's responsibility to provide the learning environment in the school that fosters maximum student growth and reflect individual differences.

It is further realized that mutual rapport among the home, student, staff, administration, school board, and total community is necessary to implement this policy.

The goal of this school district is to accept responsibility for the development of each child into an adult who can stand confidently, participate fully, learn continually and contribute meaningfully to our world.

# LANGUAGE ARTS

## English 1 Composition

**Prerequisite:** None

**Grade Level:** 9

**Course Length:** Semester

**Offered:** Every Year

This one-semester freshman course offers the students the opportunity to increase their basic skills in writing, speaking, vocabulary, sentence/ paragraph composition, literary analysis, and research. Students will hone in on improving their fundamental writing skills by organizing, drafting, editing, proofreading, and giving / receiving feedback. They will be responsible for the construction of the 5-paragraph essay such as the descriptive essay, expository essay, persuasive essay, and responsive essay. Students will also be introduced to a variety of texts and genres which will be the subject of much of their writing. Grammar 1 and vocabulary units will also be implemented in this course curriculum. Throughout the semester, students will also be involved in discussions, presentations, individual / group activities, as well as research.

## Modern Literature

**Prerequisite:** None

**Grade Level:** 9-12

**Course Length:** Semester

**Offered:** Even Years

This one-semester course is open to students in grades 9-12. Modern Literature is designed for students who have an interest in historical fiction and / or realistic fiction based on events and stories dating from the 1950's to present times. Activities throughout this semester will relate to short stories, poems, films / videos, articles, and a possible novel. Students will not only improve their comprehension, writing, and analytical skills, but will become familiar with the challenges of various cultures and settings. A variety of activities will include individual / group work, circle discussions, presentations, research, written compositions, and journals / daily writing activities.

## American Literature

**Prerequisite:** English 1 Composition

**Grade Level:** 10-12

**Course Length:** Semester

**Offered:** Every Year

This one-semester course is offered to students in grades 10, 11, and 12. American Literature is an advanced reading class that focuses on history and literature between the 17<sup>th</sup>-20<sup>th</sup> Centuries. Students in this class will traverse our great nation and be exposed to various forms of literature...all written by American authors. Students will examine and analyze the progression of American literature through six literary periods using different styles of text. (short stories, poetry, articles, journals, and letters). Also included in this class is a fairly intense unit relating to the play *The Crucible*. Literary elements / devices will be applied to text as well as an emphasis on vocabulary and grammar. A variety of activities will

include individual / group work, circle discussions, presentations, research, written compositions, and journals / daily writing activities.

## **British Literature**

**Prerequisite:** English 1 Composition

**Grade Level:** 11-12

**Course Length:** Semester

**Offered:** Even Years

This one-semester course is offered to juniors and seniors. British Literature is an advanced reading unit that focuses on the history / background of various British styles / genres of text ranging from the early Anglo-Saxon Era to more contemporary periods. Reading about epic heroes, rather disgusting sea creatures, dragon fights, and the survival of the fittest between two English snipers are all a strong possibility. In British Lit. students will gain an understanding of different settings, traditions, and cultures. Throughout this unit students will dig deep analytically into various text for comprehension, interpretation, and application of literary devices. Students will reflect and respond critically to topics and questions relating to this unit.

## **Criminal Literature**

**Prerequisite:** None

**Grade Level:** 9-12

**Course Length:** Semester

**Offered:** Even Years

This one-semester English course is offered to students in grades 9-12. Criminal Literature is a thematic-based reading course in which students will read engaging selections of mystery and crime fiction literature across a variety of genres. This course will appeal to students who like to read, especially those who like a good “who-done-it?” Students will have the opportunity to solve mysteries as well as write them. It will be required for each student to read one crime fiction novel and complete an extensive book review at the end of the course. Students will also read for comprehension and discussion, as well as the application of a wide variety of literary devices. Activities will include presentations, research, author biographies, unsolved mystery presentations, an in-depth study of the old classic, “The Monkey’s Paw”, as well as daily writing activities and essays.

## **Cinema Composition**

**Prerequisite:** None

**Grade Level:** 9-12

**Course Length:** Semester

**Offered:** Even Years

This one-semester English course is offered to students in grades 9-12. For anyone who likes movies / films, this is the English class for them. Students will watch a variety of films throughout the semester (current movies, classics, documentaries, etc.) and will use these as a launch pad for writing. Students will research the history behind the movie, the setting, as well as the characters. The same elements found in a good book will be applied to the film. They will be exposed to the “backstage” jargon and terminology used in creating quality cinema films. Examples of types of writing students will be assigned

include, but are not limited to: critiques, character analyses, opinion essays, plot outlines, journals, and daily short writing activities. Students will complete formal presentations, panel discussions, essays, and research activities.

## **Creative Writing**

**Prerequisite: English 1 Composition**

**Grade Level: 10-12**

**Course Length: Semester**

**Offered: Odd Years**

This one-semester course is offered to students in grades 10-12. In Creative Writing, writers will explore and improve their creativity through different forms of expression and genres. Students will be exposed to, but not limited to, different types of poetry and prose forms, as well as art, photos, and musical lyrics. During this class, originality and creativity will be emphasized. Writers will respond to text and create poems, descriptive essays, and narratives. Students will be expected to keep journals and prepare a portfolio of their completed work. Sharing work and peer reviews will be an essential part of this class.

## **Intermediate Composition**

**Prerequisite: English 1 Composition**

**Grade Level: 10-12**

**Course Length: Semester**

**Offered: Every Year**

This one-semester course is offered to students in grades 10-12. In Intermediate Composition, students will be exposed to the skills necessary to write clear, logical sentences and paragraphs. Focusing on organization and purpose, students will create a wide variety of written assignments ranging from various essays, research papers, narratives, poetry, and analyses. Emphasis will be placed on the completion of written work that display proficiency in sentence structure, logical, effective organization, and defense of an obvious argument. Students will critique, revise, and edit one another's work.

## **Senior Composition**

**Prerequisite: English Composition 1**

**Grade Level: 12**

**Course Length: Semester**

**Offered: Every Year**

This one-semester course is offered to high school seniors only. Senior Comp is primarily designed for the college-bound student. The goal of this class is to provide students with the skills necessary to create articulate writing that is appropriate to a particular purpose, voice, theme, and audience. Students taking this class will be exposed to strategies that are intended to produce well-written essays, research papers, responsive writings, and scholarship applications. Students will demonstrate a strong command of vocabulary, English language conventions, research, analysis and organizational skills, and creativity.

## **Dramatic Literature**

**Prerequisite: None**

**Grade Level: 9-12**

**Course Length: Semester**

**Offered: Odd Years**

This one-semester course is offered to students in grades 9-12. Dramatic Literature will expose students to a variety of dramas (plays). In this class students will be introduced to the development and background of the 'drama'. Students will read, discuss, and analyze plays as literature. Focus will be placed on the history, culture, setting, and characters of the play as well as the application of literary devices.

**Graphic Novels**

**Prerequisite: None**

**Grade Level: 9-12**

**Course Length: Semester**

**Offered: Odd Years**

In this one-semester course students will learn about graphic novels and their progression over the years from being a comic book, dating back to the 1800's, to the modern graphic novel they are today. Literary devices and vocabulary specific to the graphic novel will be applied through various writing strategies. Writing assignments relative to this class will include, but not be limited to: essays, journals, research, response journals, speeches, and presentations.

**Speech**

**Prerequisite: None**

**Grade Level: 9-12**

**Course Length: Semester**

**Offered: Every Year**

This one-semester course is required for graduation and is offered to students in grades 9-12. Students in Speech will be exposed to the process involved in writing and giving speeches. Students will demonstrate an understanding and application of the techniques used in formal public speaking including listening skills, speech preparation, and research methods. Students will be shown the importance of outlining and preparing note cards. Activities will involve preparing speeches to inform, entertain, demonstrate, persuade, and defend.

**Applied English**

**Prerequisite: English Composition 1**

**Grade Level: 10-12**

**Course Length: Semester**

**Offered: Every Year**

This one-semester course is offered to students in grades 10-12. Applied English is designed for vocationally-bound student or students going directly into the work force. The focus of this class is to expose students to a variety of activities relating to life and career management. This course will prepare students to be academically functional in the business and the vocational world. Its emphasis will be on proper grammar and mechanical skills, along with improved skills in reading, vocabulary, speaking, listening, and writing.

**Novels**

**Prerequisite: English Composition 1**

**Grade Level: 10-12**

**Course Length: Semester**

**Offered: Odd Years**

This one-semester class will introduce students to the novel. They will learn about the history and origin of the novel as well as the basic characteristics of a novel. Students will analyze the development of a selected novel and demonstrate an understanding of the application of literary devices through both oral and written assignments. They will make connections and build relationships. Students will become acquainted with certain authors and how an author's background might influence their written work.

## **Survey of Literature**

**Prerequisite: None**

**Grade Level: 9-12**

**Course Length: Semester**

**Offered: Every Year**

This one-semester class will expose students to different types of literary genres written through different time periods. Students may travel as far back in time as Shakespeare and as far into the modern-day world of literature as a memoir written by a space engineer. Students will draw conclusions and make connections between the old and the new. Through analysis and the application of literary devices in both written and oral activities, students will demonstrate a sharper understanding of the text as well as the literary devices being applied. Students will gain a deeper understanding of how themes of a particular text can be influenced by setting and environment.

## **Math**

### **Pre-Algebra**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Pre-Algebra courses increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

### **Algebra I**

**Prerequisites: Pre-Algebra (or 8th Grade student with administrative concurrence)**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Algebra I course topics include developing mathematical expressions, solving first-order linear equations and inequalities, graphing systems of equations with two variables, coordinate grids,

polynomial and nonlinear functions, factoring polynomial functions, quadratic equations, exponents, scientific notation, and probability calculations.

## **Algebra 2**

**Prerequisites:** Algebra I

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Algebra 2 course topics include solving systems of linear and quadratic equations; graphing of linear and quadratic equations; graphs of advanced functions; properties of higher-degree equations; operations with rational and irrational equations and expressions; factoring of rational expressions; in-depth study of linear equations and inequalities, Trigonometry operations and logarithmic relations.

## **Geometry**

**Prerequisites:** Algebra I

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Geometry course includes topics such as properties of plane and solid figures to include area and volume computations; the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportions; rules of angle measurement in triangles and quadrilaterals; arcs, segment and circumference of circles; and in-depth use of the Pythagorean Theorem, Distance Formula, and Mid-Point Formulas. Trigonometry is introduced with focus of basic functions and problem-solving within triangles.

## **Pre-Calculus**

**Prerequisites:** Algebra 2, Geometry

**Grade Levels:** 11-12

**Course Length:** Year

**Offered:** Every Year

Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematic Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; matrix algebra; sequences and series; and limits and continuity.

## **Algebra 3 Acellus**

**Prerequisites:** Algebra 2

**Grade Levels:** 11-12

**Course Length:** Year

**Offered:** Every Year

Online course (Advanced Math Acellus™) in a classroom setting focused on college math preparation; reviews every aspect of high school mathematics from basic Pre-Algebra thru and

including Pre-Calculus problem-solving skills; advanced trigonometry; linear and quadratic functions and relations; conic sections; vectors; logarithmic and exponential equation solutions.

## **Science**

### **Chemistry**

**Prerequisite:** Taking grade level math concurrently, Biology

**Grade Levels:** 10-12

**Course Length:** Year

**Offered:** Every Year

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

### **Earth Science**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography

### **Biology**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

### **Physics**

**Prerequisite:** Physical Science or Administrative Approval

**Grade Levels:** 10-12

**Course Length:** Year

**Offered:** Every Year

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, momentum, and motion (linear, projectile, and circular). The study of physics includes examination of sound, light, and color, and how they are affected by reflection, refraction, lenses, diffraction, and interference.

## **Physical Science**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Physical Science courses involve the study of the forces and laws of nature affecting matter, such as friction, momentum, and linear motion. The study of physics includes examination of the many forms of energy. The course will include topics such as electricity, magnetism, motors and generators.

## **Human Anatomy**

**Prerequisite:** Biology

**Grade Levels:** 10-12

**Course Length:** Year

**Offered:** Even Years

Anatomy courses present an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems.

## **Social Studies**

### **South Dakota History**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Semester

**Offered:** Every Year

In South Dakota history, we take a look at not only the history of South Dakota but also geography, events, people, and places of South Dakota. In this class, we do research and map work on reservations and early forts. We also do a lot of partner work and group projects about people and events. This class is a yearlong.

### **Current Events**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Semester

**Offered:** Every Year

Current Events will deal current issues dealing with political, weather, sports, and news. We will deal with these issues on a local, state, regional, U.S., and world level. We will also create our own news channel and will film it and put it on our school website.

## **Geography**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Semester

**Offered:** Every Year

World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

## **World History**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Semester

**Offered:** Every Year

Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.

## **American History**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

## **Profound Events in History Pre-1960**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Semester

**Offered:** Every Year

Profound Events is a course that takes an in-depth look at major events from around the world. Wars, colonization, and cultural movements will all be discussed. Students will have the opportunity to read different works and watch documentaries and movies. This class will look at events that occurred before 1960.

## **Profound Events in History Post-1960**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length: Semester**

**Offered: Every Year**

Profound Events is a course that takes an in-depth look at major events from around the world. Wars, colonization, and cultural movements will all be discussed. Students will have the opportunity to read different works and watch documentaries and movies. This class will look at events that occurred after 1960.

## **U.S. Government**

**Prerequisite: None**

**Grade Levels: 11-12**

**Course Length: Year**

**Offered: Every Year**

Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

## **Fine Arts/Performing Arts**

### **General Band**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

High School Band courses help students develop techniques for playing brass, woodwind, and percussion instruments and their ability to perform a variety of concert band literature styles. The prerequisite for this class: student has to have a working knowledge of his/her chosen instrument(s); either through prior band classes in elementary or middle school, summer band lessons, or teacher's recommendation upon enrollment. These courses may emphasize rehearsal and performance experiences in a range of styles (e.g., concert, marching, pep, and modern) and also include experiences in creating and responding to music through festival and contest opportunities.

### **Chorus**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

High School Chorus develop students' vocal skills within the context of a large choral ensemble in which they perform a variety of styles of repertoire. These courses are designed to develop

students' vocal techniques and their ability to sing parts and include experiences in creating and responding to music through festival and contest opportunities.

## **Art I**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Art 1 introduces students to the methods, techniques, concepts, and materials essential to understanding the visual arts. Students will create numerous projects and experience a wide variety of mediums including drawing, painting, printmaking, sculpture, and mixed media. Art history lessons are intertwined with projects. Students will participate in class critiques, and complete sketchbook assignments. In addition, students will submit work in art shows and take class field trips. A variety of supplies will be provided: A sketchbook, 3 drawing pencils, kneaded eraser, pink pearl eraser, pencil sharpener, and all other materials needed to create projects.

## **Art II**

**Prerequisite: Art 1**

**Grade Levels: 10-12**

**Course Length: Semester/Year**

**Offered: Every Year**

Art 2 is designed for highly motivated students who are committed to the study and creation of visual art. Students will work in a variety of two-dimensional and three-dimensional media. Students will be working independently most of the time and are responsible for getting the assigned projects done within each quarter. Each project will have in-progress critiques, final critiques, and reflections. The student and teacher will work one-on-one throughout the projects to help develop individual style and creativity. Art history lessons are intertwined with projects. Students will participate in class critiques, and complete sketchbook assignments. In addition, students will submit work in art shows and take class field trips. A variety of supplies will be provided to the student.

## **Graphic Design I**

**Prerequisite: None**

**Grades: 9-12**

**Course Length: Year**

**Offered: Even Years**

Graphic Design 1 focuses on art and technology. Graphic design students will use design as a way to creatively communicate through words, symbols, and images. This course is designed to give students an understanding of design skills using Adobe Photoshop techniques. Students will use Photoshop to design media for printed products as well as creating fine art. Projects include logo design, drink label, crowd sourcing project, self-portrait, typography light boxes, and movie poster design. Students will also gain foundational knowledge of typography, layout, color theory, image editing, and printing methods.

## **Graphic Design II**

**Prerequisite:** Graphic Design I

**Grades:** 10-12

**Course Length:** Semester

**Offered:** Odd Years

Graphic Design 2 builds on the knowledge learned in Graphic Design 1. Students will gain a deeper understanding of layout and design aesthetics as they create more advanced projects. They will continue to use design to communicate through words, symbols, and images. Adobe Photoshop will be the primary program used to create work. Students will design a variety of projects for print media as well as use Photoshop to create fine art.

## **Digital Photography**

**Prerequisite:** None

**Grades:** 9-12

**Course Length:** Semester

**Offered:** Odd Years

This class is an introduction to digital photography. The class will push you to be in control of your camera, to develop an artistic style beyond the regular snapshot, and learn to describe and critique work with a photography vocabulary. Students will study basic composition, depth of field, exposure, action, color balance, and other creative aspects of photography. Students will learn about the history of photography and photographs that have shaped our lives today. Students are encouraged to bring their own SLR digital camera with full manual exposure controls (focus, ISO, aperture, and shutter speed settings). Burke School will also have cameras for students to use.

## **Foreign Language**

### **Spanish 1**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Designed to introduce students to Spanish language and culture, Spanish I courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on a variety of topics. They introduce the relationships among the products, practices, and perspectives of Spanish-speaking cultures.

### **Spanish 2**

**Prerequisite:** Spanish 1

**Grade Levels:** 10-12

**Course Length:** Year

**Offered:** Every Year

Spanish II courses build upon skills developed in Spanish I, preparing students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information on concrete topics.

Spanish II courses introduce the relationships among the products, practices, and perspectives of Spanish-speaking cultures.

## **Spanish 3**

**Prerequisite:** Spanish 2

**Grade Levels:** 11-12

**Course Length:** Year

**Offered:** Every Year

Spanish III courses prepare students to communicate authentically in Spanish by interpreting (reading, listening, viewing), exchanging (speaking and listening; reading and writing), and presenting (speaking, writing) information, concepts, and ideas on a variety of topics, including connections to other subject areas. These courses expand students' knowledge of relationships among the products, practices, and perspectives of Spanish-speaking countries and cultures.

## **Computer Science**

### **Accounting I**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Want to learn how a business keeps track of their finances and determines if they have made or lost money? Accounting I introduces concepts and principles based on a double entry system of maintaining electronic and manual financial records. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.

### **Accounting II**

**Prerequisite:** Accounting I

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Students will develop advanced skills that build upon those acquired in Accounting I. Additional accounting skills such as reconciling uncollectible accounts, calculating depreciation on assets, interpreting financial information, and calculating notes and interest will be developed.

### **Personal Finance**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** Every Year

Be prepared to manage your finances and make informed decisions after you leave high school. Personal Finance is a class for Seniors. Students will develop resumes, research careers, learn about money management, credit and debt, saving and investing, managing risk, and income. Simulations and projects will be used to reinforce concepts in this course.

## **Web Design**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Every Even Years**

Web design is a course in which students will learn the skills needed to make basic and intermediate web pages and web sites. This course will help prepare students who are interested in the area of design, graphics, multimedia, and web development. Students will be working with HTML coding and develop web sites.

## **Multimedia**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Every Even Years**

Students in this class will determine the type of multimedia project they would like to create. Students will learn to use photo editing software (Photoshop), audio editing (GarageBand), Animation software (Flash), and Video Editing (Pinnacle), etc. All of these elements will be incorporated into the final project.

## **Business Law**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Business Law focuses on an understanding of the court system at the local, state, and national level. Students will gain an understanding of contract law and their rights and responsibilities as citizens. Students will analyze cases and participate in mini simulations and projects.

## **Desktop Publishing**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Would you like to design the school's yearbook and paper? This is the class for you. In Desktop Publishing you will use online programs to create Burke's Yearbook and develop monthly papers.

You get to determine the theme and develop pages based on that theme. Photography will also be covered in this course.

## **Marketing**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Odd Years**

Marketing is a hands on course in which you develop a product and try to sell it. Remember the rustic wooden flags that were created and sold in the past? You get to develop, plan, create and try sell your own products in this course. Can you make a profit and make your product succeed?

## **Sports and Entertainment Marketing**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Odd Years**

Do you enjoy sports or enjoy the Marketing that goes along with sporting events (for example the super bowl commercials)? In sports marketing you learn about marketing activities that go along with sporting and entertainment events (concerts, etc). In this course you will also participate in a simulation in which you create your own sports team and try to earn \$5,000,000.

## **Health, Recreation, and Careers**

### **Health**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

This course includes physical, emotional, and mental health and wellness. Along with suicide prevention, nutrition, disease and disorders, fitness for life, and reproductive health; which includes HIV and AIDS?

### **Physical Education**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Activities are designed to develop and strengthen the body, teach basic sport skills, impart knowledge of rules and develop qualities of good sportsmanship. Students will build endurance, flexibility, quickness, and muscular strength through the Presidential Fitness Program.

## **Weight Training**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Weight Training courses help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.

## **Advanced P.E.**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: Every Year**

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

## **Family and Consumer Science**

### **Human Development: Prenatal through Toddlers**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Even Years**

Understanding patterns, sequences, and stages of development is vital for guiding infant and toddler to make informed decisions. Due to an increasing number of working parents and a need for highly qualified educators, trained personnel in the childcare field are in demand. Human development knowledge is essential for individuals seeking a career in education, health, medical and human service professions, and many other careers involving working with infant and toddler. Students will have hands on experiences with labs, guest speakers and field trips that cover the prenatal period through birth as well as experiences with day care settings.

### **Human Development: Preschool through School-Age**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Even Years**

Understanding stages of development is vital for guiding children to make informed decisions. Due to a need for highly qualified educators, careers in this area are in high demand. Human development knowledge is essential for individuals seeking a career in education, health, medical and human service professions, and many other careers involving working with children and youth. Students will have hands-on experiences with day care/ school settings as well as planning and carrying out activities with children in a variety of ages.

## **Nutrition and Wellness**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Odd Years**

Nutrition and Wellness class is designed to encourage students to make wise nutrition and wellness choices. In the busy lives that today's teens lead, food choices and exercise are critical components to their healthcare. Likewise, as consumers, they need to understand food preparation principles and the structure and function of all of the essential nutrients. Therefore, this class emphasizes not only the aspects of wellness that affect our health, but nutritious food choices and the principals of correct preparation of nutritious foods as well.

## **Housing and Design**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Semester**

**Offered: Odd Years**

Everyone has a place they can call home, and there is plenty to know about the ins and outs of how living spaces are designed, constructed and decorated. This class will introduce participants to the important elements of design as well as teaching them about the designing of the various rooms of a house. Also learn about decorating a home and practice what you learn in redecorating an apartment as well as constructing a plan of your "dream home". Lots of hands on in planning, designing, and making when possible.

## **Career and Technical Education**

### **Human Body Systems**

**Prerequisite: None**

**Grade Levels: 9-12**

**Course Length: Year**

**Offered: On site 2019, 2022**

In Human Body Systems (HBS), students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science

in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

## **Principles of Biomedical Science**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On site 2019, 2022

In Principles of Biomedical Science (PBS), the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

## **Introduction to Engineering Design**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On site 2020, 2023

Engineering Design and Development courses provide students with the opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype as part of the design solution.

## **Introduction to Engineering**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On site 2020, 2023

Introduction to Engineering courses integrate technology-oriented applications of mathematics and science into pre-engineering activities for students. Course topics may include material sciences, technology processes, enterprises, and career opportunities.

## **Welding Technology**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On site 2018, 2021, 2024

Welding courses enable students to gain knowledge of the physical and chemical properties, uses, and applications of various metals. Students gain skills in various processes used to join and cut

metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes) and experience in identifying, selecting, and rating appropriate techniques. Students read and interpret blueprints in order to identify, select, and rate appropriate techniques. These courses may prepare students to pass relevant industry certifications.

## **Building Trades**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On Rotation

Construction—Comprehensive courses provide students with basic knowledge and skills required for construction of commercial, residential, and institutional structures. These courses provide experiences and information (typically including career opportunities and training requirements) regarding construction-related occupations such as carpentry, cabinetmaking, bricklaying, electrical trades, plumbing, concrete masonry, and so on. Students engage in activities such as reading blueprints, preparing building sites, starting foundations, erecting structures, installing utilities, finishing surfaces, and providing maintenance.

## **Introduction to Agriculture and Natural Resources**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On Site 2020

Introduction to Agriculture and Natural Resources courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and career opportunities and those in related fields. These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. These courses often focus on developing communication skills, scientific research, types of business ownership, business principles, and leadership skills.

## **Fundamental Animal Science**

**Prerequisite:** None

**Grade Levels:** 9-12

**Course Length:** Year

**Offered:** On Site 2020

Animal Production/Science courses impart information about the care and management of companion and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, research, qualitative and quantitative analyses as a basis for decision making, and marketing. Students may study a

particular species, or they may learn how to care for and maintain livestock as a more inclusive study.