

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 I

Grade 9

This freshman course is actually divided by semester into two main sub-courses: English I and Literature of a Time Period. English I focuses on writing, grammar, and vocab...all of which will be applied to various text. Literature of a Time Period focuses more on comprehending reading, analyzing text, and applying literary devices to text, movies, and videos which are based on particular time periods. Students may read the classic "Romeo and Juliet" or watch the movie version of a memoir focusing on a small, coal-mining town and the launch of Sputnik. Book reports are required in this class. (400 pgs. per quarter)

English II

Grade 10

This class is divided by semester into two sub-courses: Speech and English / Literature. Speech is designed to prepare students to develop and express ideas and speak comfortably in front of others. It will require students to prepare speeches based on assigned topics and make presentations using proper format, logic, and evidence of topic. In English Literature, students will be required to read a variety of text ranging from novels to poetry to short stories. Literary elements / devices, vocabulary, grammar, and writing will also be a part of this course. Book reports are required in this class. (400 pgs. per quarter)

English III

Grade 11

English III is basically American Literature. AL is an advanced reading class that focuses on history and literature between the 17th-19th Centuries. Students in this class will be exposed to various forms of literature...all written by American authors. Students will examine and analyze the progression of American literature throughout six literary periods using different styles of text. Literary elements / devices will be applied to text as well as an emphasis on vocabulary and grammar. Book reports for extra credit are optional. (min. of 500 pgs. per quarter)

English IV

Grade 12

This senior English class is comprised of three basic units: British Literature, Senior Experience, and Writing Composition.

British Literature is an advanced reading unit that focuses on the history / background of various British styles of text. Throughout this unit students will analyze text for comprehension, interpretation, and application of literary devices.

Senior Experience is a required unit during the senior year that is worth one additional English credit and consists of four requirements for completion: research paper, product, presentation, and portfolio. Throughout this unit students will choose a topic, write a research paper based on the topic, build a physical product that will be presented in the spring, and compile a portfolio of their experiences throughout the unit.

Writing Composition is an advanced writing unit that focuses on the analysis and annotation of various styles of text and genres. Throughout this unit students will be exposed to short stories, quotes, poems, movies, documentaries, sonnets, ads, and news articles. Book reports for extra credit are optional. (min. of 500 pgs. per quarter)

Criminal Literature

1st Semester, ½ credit

Grades 9-12

Criminal literature is a thematic literature course, in which students will read fun and engaging selections of mystery and crime literature across a variety of genres. Genres represented will include short stories, novels, and drama. This course will appeal to students who like to read, especially those who like a good “who-done-it?” While the focus of the course is literature, students will do some writing. Students will have the opportunity to solve mysteries as well as write them. Students will read for comprehension and discussion, as well as focusing on literary elements, such as plot, character, etc. Students will earn ½ credit of language arts elective.

Cinema Composition

Second Semester, ½ credit

Grades 9-12

For kids who like movies, this is the writing class for them. Students will watch a variety of films throughout the semester (current movies, classics, documentaries, etc.) and will use these films as a launch pad for their writing. Examples of some types of writing that students will do include critiques, character analysis, opinion essays, journaling, and free-writing. Students will earn ½ credit of language arts elective.

Advanced Composition

Grades 11 & 12

Offered on odd years-1st semester

This semester course is designed to prepare students for college level writing. Students will refine their skills in research writing, exploring a variety of topics. Students will write position papers of varying lengths for the purpose of building their skills in academic writing. The focus

of this class is on the college-bound student learning how to write academic papers, while exploring intellectually engaging subject matter. This is a good class for students who want to prepare for college or who enjoy expressing themselves in writing over intellectual topics.

Rigor level: 4/5

British Literature

Grades 11 & 12

Offered on even years-2nd semester

This semester course is designed to help prepare students for the rigors of a freshman level, college literature course, while giving students an introduction to British Literature. Students will become familiar with some of the major British authors, their works, and the cultural context of said works. Being a lit. course, the focus of the class will be on literature. Students will be required to do a small amount of writing and a great deal of reading. Rigor level: 4/5

Novels

Grades 9-12

Offered on odd years-2nd semester

This semester course is designed to engage students in the fun of reading novels. This is a good class for students who like to read; for those who do not like to read... well, it's a lot of reading. Students will be graded on class participation in discussions, projects dealing with analysis of major literary elements, and short writing assignments expressing the student's opinions and interpretations of the literature. Over the course of a semester, students will read 5 novels. The pace will be steady, but not frenetic.

Rigor level: 3/5

Creative Writing

Grades 9-12

Offered on even years-1st semester

This semester course is just what it sounds like, creative writing. Students with imagination who like to express themselves should enjoy this class. Students write poetry, short stories, and even work on a novella as a final project. As a class project the class will publish a literary magazine that compiles the work of the class for the semester. Most of the emphasis in the class will be on writing, but there will be some short reading assignments as well, as students study the genres of writing that they will be working to create. Students will be graded on objective criteria incorporating the major elements that are studied throughout the course, rather than the instructor's individual opinion of the work. In other words, the work will be graded, so effort is required, but the grading criteria will take varying literary tastes into account.

Rigor level: 2.5/5

Math

Algebra I

Grade 8 or 9

Course Book: "Algebra I" Glencoe Mathematics, 2003

Prerequisites:

-High School student or 8th Grade student with concurrence from parents, HS Math instructor, and principal.

-Understanding of basic mathematics (addition, subtraction, multiplication, and division), fractions, percentages, interpretations of graphs and charts, translation of simple word or verbal problems into basic algebraic expressions.

-Required math course for high school graduation

Algebra I develops the student's ability in mathematical reasoning, mathematical communication skills and terminology to properly deal with unknown values in problem-solving situations. Variables are introduced within mathematical expressions, equations developed and solutions derived utilizing a variety of processes and mathematical properties. Basic properties of real numbers, first order linear equations and inequalities, slope and y-intercept computations, systems of equations with two variables, graphing equations in two-dimensional coordinate grids, polynomial and nonlinear functions, factoring polynomial functions, exponents, scientific notation, basic of area and perimeter for geometric shapes, statistics and probability are all covered in this initial high school mathematics course. A primary focus of Algebra I is to provide students with the tools and understanding for problem solving real world situations.

Geometry

Grade 9 or 10

Course Book: "Geometry" Glencoe Mathematics, 2004

Prerequisites:

-Completion of Algebra I (or concurrent enrollment with consent of math instructor and administration)

-Ability to graph and label and subtract fractions and integers

-Basic perimeter, area, and volume computational skills

Geometry deals with the relationships of geometric figures with respect to sides, angles, measurements, and computations. The four major units of study for developing the course include 1) lines and angles 2) triangles 3) quadrilaterals and circles; and 4) area and volume determination. Accuracy and methods of both direct and indirect measurements, reasoning and proof, comprehension of the Pythagorean Theorem, Distance Formula, and Mid-Point Formula all play an important role in the student's ability to identify, effectively communicate using geometric terminology, and calculate unknown angles or segments of geometric figures. Proportionality, similarity, established relationships of theorems and measures of various polygons, triangles, or arcs of circles. Trigonometry is introduced to further the student's

understanding for problem-solving unknown distances or angles when dealing with real-life situations and circumstances.

Algebra II

Grade 10 or 11

Course Book: "Algebra II" Glencoe Mathematics, 2003

Prerequisites: Algebra I and Geometry

Algebra II develops the student's mathematical skills to master advanced algebraic processes. Expanding on the lessons learned in Algebra I and integrating the concepts from Geometry, students are challenged beyond the basics of algebra to explore methods for solving single – or multi-variable equations. This course further investigates and integrates the use of technology of the graphing calculator to simplify computations and visualize equations and functions graphically. Operations with matrices are introduced to rapidly solve three variable systems of equations. Students will use of the Quadratic Formula and "completing the square" method in developing quadratic solutions, devise methods of solving polynomial equations of nth degree and develop scatter plots and linear programming to model real world data.

Units of advanced algebra presented in this course include 1) First-degree equations and inequalities; 2) Polynomials and radical equations; 3) Advanced functions and relations involving conic sections (parabolas, ellipses, hyperbolas, and circles), rational equations, exponential and logarithmic relations; 4) Discrete mathematics involving arithmetic and geometric sequences/series and probability/statistics; and 5) Trigonometry functions expanding the basic trig functions previously investigated in geometry to include integrating the Law of Sines and Law of Cosines for determining unknown angles and distances in real world scenarios.

Algebra III (Acellus)

Grade 11 or 12

Course Book: No book is required for this course. All material is online

Online Resource: Acellus.com

Prerequisites: Algebra I, Geometry, and Algebra II

Advanced Math Acellus™ offers math students a self-paced environment with a focus on preparing students for post-secondary math courses. This is a broad spectrum course designed to review every aspect of high school mathematics from basic Algebra I thru and including Pre-Calculus problem-solving skills. Online computer-based instruction provides general "classroom" style instruction, note boards, and progress checks to refine and expand mathematical skills acquired in prior high school math courses. Individualized instructor assistance is provided to improve student understanding of topics without interrupting the flow

of the class. Algebra III is an outstanding preparations tool for the ACT and provides students an opportunity to achieve exceptional results on college entrance exams.

Pre-Calculus

Grade 11 or 12

Course Book: “Advanced Mathematical Concepts—Precalculus with Applications”
Glencoe 2004

Online Resources: www.amc.glencoe.com

Prerequisites: Algebra I, Geometry, and Algebra II

Advanced Math (precalculus) is an “advanced degree” algebra course that not only prepares students planning to continue into Calculus, but also provides an outstanding, challenging math option for all students planning to continue into college. This course advances many elements previously presented in Algebra II, but integrates more real-world data and word problem providing students an opportunity to apply lessons learned to develop equations and derive solutions. Five major units presented in this course include; 1) Linear Relations and Functions dealing with systems of equations, nature of special graphs, and polynomial and rational functions; 2) Trigonometry---functions, identities and equations, vectors and parametric equations; 3) Advanced Functions and Graphing---polar coordinates and complex numbers, conic sections, exponential and logarithmic functions; 4) Discrete Mathematics---continues where Algebra II left off; and 5) Calculus---integrals, derivatives, anti-derivatives, and limits.

Science

Biology

Grade 10

The course offers a comprehensive study of life and life forms. Units provide the opportunity to learn about ecology, the life of a cell, evolution, various unicellular organisms, invertebrates, vertebrates, and the workings of the human body.

Computer labs are included with various chapters along with various dissections of lab specimens. Dissections include the squid, earthworm, crayfish, frog, perch, sea star, and roundworm.

Various hands on labs are also available throughout the year.

Human Anatomy and Physiology

Offered on even years

The course offers an in-depth study of the workings of the human body. Topics covered include the levels of cellular organization, the systems that provide support and movement, the systems that integrate and coordinate the body, the systems that are involved in transport of materials throughout the body, absorptive and excretory systems, and the working of the reproductive system. Around forty labs will be completed in the course. One day is set up to visit the cadaver lab at the University of South Dakota.

Environmental Science

Offered on odd years

In this course, you will learn about the various aspects of our environment to understand how interdependent life on Earth is. We will look at environmental interactions and the known long-term effects, and the possible long-term effects in the relationship between pollution and climate. We will study the role of human impact on the environment and what we can do to reduce negative consequences.

Physical Science

Grade 9

This course provides the opportunity to study the physical nature of science and how this relates to our everyday lives. Topics covered include the relationship of energy and motion, how electricity and magnetism are important to us, various concepts of wave motion and how we use it to improve our lives, the classification of matter, the understanding of how matter is assembled, and the interactions of matter to produce various types of everyday products. Coursework involves laboratory activities, in-class assignments and formal assessments that require students to demonstrate problem-solving skills in the context of a science scenario.

Chemistry I

Grade 11 or 12

Chemistry is the study of matter and the changes it undergoes. The student learns how to collect and analyze data, lab techniques, the structure of the atom, use of the periodic table, properties of gases and solutions, ionic covalent bonding, chemical reactions and stoichiometry. The student will spend much class time in the lab.

Physics

Grade 11 or 12

This course is designed for students with a strong foundation in mathematics and the physical sciences. Physics is the study of the basic nature of motion, forces, energy, matter, heat, sound, light, and electricity. An emphasis is placed on a mathematical understanding of the physics principles that are presented. Coursework involves laboratory activities, in-class assignments and formal assessments that require students to demonstrate problem-solving skills in the context of a science scenario.

Advanced Placement Biology

Grade 11 or 12

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. AP Biology aims to provide students with the conceptual framework, factual knowledge, and analytical skill necessary to deal critically with the rapidly changing science of biology. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns.

Social Sciences

American History

Grade 9

Students are introduced to Reconstruction of the South and the Industrialization of America. America as a World Power developed. The Changing Nation developed by the two World Wars and the Cold War. The students are introduced to the present day foreign policy as developed in accordance with everyday developments in the World.

World History/World Geography

Grade 10

Students are introduced to the beginnings of civilizations of the Mediterranean World. The world in transition is introduced through the Byzantine, Kievan Russia, and Mongol empires.

The Islamic Empire and the middle ages are studied. The Renaissance, Reformation, and Scientific Revolution are also introduced.

South Dakota History

Grade 11

Students are introduced to the history of the development of South Dakota. The students study the climate, people and the geography of South Dakota. Topics include: The Fur Trade, Travelers, Scientists, and Missionaries in South Dakota, the Black Hills Gold Rush, The Great Dakota Boom, Pioneer Days and Ways, Building a New State.

American Government

Grade 12

Introduces students to both the origins of American government and the government, as it exists today. Students learn the role American citizens play in their government. Students study Congress as it was conceived over 200 years ago and Congress as it operates today. Students are introduced to the powers and responsibilities of the President. The judicial branch points out the constitution protections of individual rights and liberties.

US Contemporary Issues

Grades 9-12

This is a study of current events at the local, state, national, and world level. The class will have discussions of the historical background to happenings in the world today. Copies of the Daily Republic are purchased for the students to read. Films of Newsworthy articles are taped and shown; such as Sixty Minutes of CBS or noteworthy presentations on the History Channel.

Profound Events in History- Pre 1960

1st Semester-1/2 credit

Offered on odd years

Grades 9-12

Course description- This particular course will cover pre-1960 History. Through collaborated ideas from both students and teacher, it will cover events such as the Pearl Harbor Attack, the planes and technology used during this time. Also occurrences like Roger Bannister breaking the 4-minute mile barrier in 1954, the Wright Brothers Flight (1903), D-Day Landings, sinking of the Titanic, and much more. We will take a different look at how these events happened and use new technology to bring it to life.

Profound Events in History- Post 1960

2nd Semester-1/2 credit

Offered on odd years

Grades 9-12

Course description- This semester will cover post-1960 History. Topics to discuss and research will be; Tunnel Rats (Vietnam Conflict), 9-11 (2001), Capture of Saddam Hussein (2003), the assassination of Bin Laden (2011) just to name a few. We will use collaborated ideas from both students and teacher to explore not only these events, but get into interesting detail of technology used during each incident. Our information will come from research done by students and teacher to be shared and discussed.

Fine Arts/Performing Arts

High School Choir (mixed chorus)

Grades 9-12

This course is designed to introduce singers to three-part choral music. Classes will mostly follow the structure of musical rehearsals with a goal of performing two- and three-part songs for concerts. Students in mixed chorus will perform in 2-3 concerts per year. Extra-curricular choir events available to students enrolled in the course include: All-State Choir (auditioned), Region V Festival, Solo/Ensemble Contest, and Large Group Contest. Some class periods will also include work on various music-themed projects.

High School Band

Grades 9-12

This course includes marching band, pep band, and concert band for all students enrolled. Students will work to refine techniques in marching band as well as developing rudimental skills in all areas of instrumental music performance. Performances in 3-4 parades, 2-3 school concerts, Large Group Contest, and home pep band events will be required for all students enrolled. Extra-curricular band events available to enrolled students include: All-State Orchestra (auditioned), All-State Band (auditioned), Quad State Honor Band (auditioned), Region V Festival, Augustana Band Festival, and Solo/Ensemble Contest.

Foreign Language

Spanish I (Online)

Grades 9-12

This course entails a look into the culture of the 20 Spanish-speaking countries around the world and an introduction into the language as well. We begin with the structure of the language, creating sentences and agreements, and eventually lead into basic conversational abilities, from greeting to weather. Second semester deals with cultural activities and the conjugation of the varieties of verbs in the present tense, plus a plethora of vocabulary. This class primarily teaches the basic of the Spanish language and culture, able to get a student comfortable taking Spanish at the college level.

Spanish II (Online)

Grades 10-12

This course builds on the content learned in Spanish I plus a higher of conversing. First semester delves into grammar, commands, present participles, and the past tense. Much vocabulary is introduced intermingling with the grammar. Second semester involves several new verb tenses and touches on subjects such as art, immigration, and traveling. By the end of the second semester, students should be able to test out of one or two semesters of basic college Spanish.

Computer Science/Business

Accounting I

Grades 9-12

Offered on odd years

Looking at going into business or do you want to be self-employed? Do you want to learn how to properly handle, manage and organize business and personal financial holdings? Accounting is the language of business and an integral aspect of all business activities. Accounting will prepare students to be an educated business professionals and informed consumers. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.

Accounting I is a hands on class. Students will complete assignments online and complete real life examples, assignments and projects.

Accounting II

Independent Study

Grades 10-12

Accounting I is a pre-requisite to taking Accounting II. Students will develop advanced skills that build upon those acquired in Accounting I. A review of the entire accounting cycle using a business allows students to begin the advanced course by reviewing many of the topics learned in the previous course.

Students will also cover topics that will help them in a business or accounting career. Topics include: Departmentalized Accounting, Accounting Systems Control Procedures, Accounting for Uncollectible Accounts, Accounting for Plant Assets/Depreciation, Notes Payable/Receivable, and Corporate Accounting.

Personal Finance

Grade 12

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.

Multimedia Design

1st Semester, ½ Credit

Offered on even years

Grades 9-12

Love to design and create projects on your computer? Multimedia Design gives students experience and knowledge in all forms of mixed media and content. Multimedia presentations combine text, graphics, animation, images, and sound from a wide range of media, including films, newspapers, magazines, CD-ROMs, online information, television, videos, and electronic media-generated images. Students will use Adobe Photoshop and learn how to create and edit images. Students will also use movie editing software to create projects.

Web Publishing and Design

2nd Semester, ½ Credit

Offered on even years

Grades 9-12

This class will also use Adobe Flash to create animations and other tools to create graphics for webpages. Students will also learn coding.

The Internet is an ever-growing media in which information can be published by just about anyone. Web Publishing and 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.

Business Law

½ Credit-Independent Study

Grades 11-12

Learn about law with real life cases. Students will gain understanding of the court system at the local, state, and national level. Students will also gain an understanding of contract law, their rights and responsibilities as citizens, utilization of financial transactions, employment and agency relationships, and regulations governing different types of business organizations.

Desktop Publishing

Grades 9-12

Want to design the school paper and yearbook? Do you like photography? Desktop publishing is used today by hundreds of thousands of people worldwide to produce a variety of publications. Students will use online programs to create publications that showcase the events of the year. Students will learn how to effectively write articles and captions and design pages that are appealing and informative. The class also chooses a project each year that includes the students throughout the school.

Advanced Desktop Publishing

Independent Study-Prerequisite: Desktop Publishing

Grades 10-12

This course is similar to Desktop Publishing; however, students who take Advanced Desktop will take on more of an editor role. Students will use online programs to create publications that showcase the events of the year. Students will learn how to effectively write articles and captions and design pages that are appealing and informative. The class also chooses a project each year that includes the students throughout the school.

Principles of Marketing

1st Semester-½ Credit

Offered on odd years

Grades 9-12

Want to learn how businesses decide what products to offer, what prices to charge, what to use in their commercials and advertisements? This class discusses the process of marketing and how businesses use marketing to create and sell old and new products/services. Students will start from the beginning and develop their own products with marketing research and planning. Students complete the process of creating advertising for their products which helps them determine the price at which to sell. There will be a cost for materials, but there is also potential to make some profit in this class!

Sports and Entertainment Marketing

2nd Semester-½ Credit

Offered on odd years

Grades 11 and 12

This is an introductory course which helps students develop a thorough understanding of the marketing through sports and entertainment events. In this course students will complete a simulation that gives them the opportunity to “work” in the exciting sports and entertainment world. The online simulation teaches students how to handle promotion, ticket pricing, stadium operations and staffing, sponsors, concessions, concert booking and promotion, and many more activities associated with sporting events.

Health, Recreation, and Careers

9th Health (required for graduation)

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?

9th Physical Education (required for graduation)

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.

Advanced Physical Education

Grades 10-12

Advanced Physical Education is an elective course. It is not required for high school graduation. Students in this course are expected to have successfully completed Physical Education I. Exceptions for enrollment may be made in unique circumstances. Upon completion of this course, the student will have become advanced in skills, rules, strategies, and concepts in numerous individual and team sports. The student will become familiar with physical education activities in foreign countries and be able to teach said activities. Finally, the student will identify and progress through personal behaviors that will aid in personal success, communication, and sportsmanship.

Demonstrate knowledge of a variety of advanced motor skills.

Understand and apply advanced movement concepts.

Understand rules and complex strategies for a variety of physical activities.

Identify and describe foreign (outside the US) physical activity games and design lesson to be used in instructing classmates.

Understand appropriate and positive behavior management (social skills) and respect for all individual differences, including gender, ethnicity, and physical ability during physical activity.

Understand and utilize personal behaviors that focus on attitude, effort, motivation, and character.

Strength Training

Grades 10-12

In strength training, students will learn the basics of weight lifting. Students will learn how to design strength training programs that are sport specific, as well as the difference between programs designed to gain size, lose weight, or build stamina. In addition to the academic theory behind strength training, students will learn how to design a strength and conditioning program tailor made for them. Students will practice lifting weights throughout the year and will implement their own strength training programs.

Family and Consumer Science

Human Development: Prenatal through Toddlers-

1st Semester, ½ Credit

Offered on odd 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.

Human Development: Preschool through School-Age-

2nd Semester, ½ Credit

Offered on odd 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.

Human Development: Adolescence through Adulthood-

Independent Study-Offered on even years

Each person passes through various life stages. These stages are infancy, childhood, adolescence, young adulthood, middle life and later life. Understanding human development helps students prepare for the roles of adulthood. *Human Development: Adolescence through Adult* is a course that is designed to enable students to gain knowledge necessary to understand the developmental stages from adolescence through late adulthood. The course will examine the developmental tasks, traits and problems of each of these stages.

Housing and Design-

2nd Semester-1/2 credit

Offered on even 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.

Nutrition and Wellness

1st Semester-1/2 Credit

Offered on even 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 preparation of nutritious foods as well.

Teachers in Training

Independent Study

Grade Level: 12

Across the nation, particularly in South Dakota, schools, businesses and industries are facing a teacher or trainer shortage. The course Teaching & Training as a Profession is intended to give knowledge, skills, and experiences to high school students who are considering a profession in education (early childhood, elementary, or middle/high school) or training (business or industry).

Youth Internship

Independent Study

Grade Level: 12

Youth Internships allow students the opportunity to consolidate and apply the learning from their high school coursework into a meaningful and relevant on-the-job experience. An Internship is an opportunity for a student to spend time with one or more employees at a business, non-profit organization or government agency. The objective is to observe and gain hands-on experience in how business and industry work. The Internship experience is selected based on the student’s chosen career cluster/pathway.

Sociology

½ Credit-Independent Study

Did you ever wonder why different groups act differently? Sociology is the study of human social life, groups and societies. This class will not only help us learn why we may act different in different groups, but also how other people and groups respond to different groups.

Psychology

½ Credit-Independent Study

Learn how and why people act the way they do. This class will study human development and how people think, learn and feel as well as personality types and what makes them sick

Career and Technical Education

Intro to Building Trades

Prerequisites: None

Offered 2017

Students will learn the basics of the building trades industry through a combination of hands-on experiences and classroom learning activities. Students in this class will work as part of a construction crew to build a house in the city of Burke. Topics to be covered include safety procedures, basic operation of hand and power tools, blueprint reading, electrical wiring applications, framing, and foundation system. Students will use industry standard tools and equipment and will get a taste of what an entry level position in the construction industry is like.

Residential Construction

Prerequisites: Intro to Building Trades or Intro to Architecture and Construction

Grade Level: 10-12

Offered 2017

Students will gain an in-depth knowledge of the building trades industry through hands-on experiences and classroom learning activities. Residential Construction students will work with the Intro to Building Trades students on the house construction project. The Residential Construction course will also include some of the more complicated facets of the job, and students will gain a more in-depth knowledge of building codes, design considerations, and job site management. Topics covered will include safety procedures, blueprint reading, electrical wiring applications, framing, foundation systems, and project overview. Students will use industry standard tools and equipment and will utilize a curriculum consistent with construction programs at post-secondary schools.

Project Lead the Way

Introduction to Engineering Design (IED)

Offered 2020

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. Projects include puzzle cubes, the train, reverse engineering, and speaker wall mounts. This introductory course will develop problem solving skills that will benefit the engineer and non-engineer alike.

Principles of Engineering (POE)

Offered 2020

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Projects include balloon poppers, bridge design, robotics, and a materials sorter. Upper classmen interested in engineering as a possible college major will benefit greatly from this course.

Principles of Biomedical Science (PBS)

Offered 2019

In 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.

Human Body Systems (HBS)

Offered 2019

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. 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.

Welding

Offered 2018

CTE Welding - With demand for skilled welders rising and the technology of welding becoming more advanced, especially where automation is concerned, students have a unique opportunity to learn a career that can be shaped around their interests. This class is a stepping stone to those career choices. Whether or not the student enters this career field, welding is a skill that these young men and women can use and enjoy for the rest of their lives. Students enrolled in this class can expect to have extensive hands on welding experience. This class is taught using a series of short films and lectures followed by practicing what they have learned in the welding lab. They will have mastered welding in the flat, horizontal, vertical, and overhead positions, giving them a skill that makes them more employable in a high wage career.