

Course Descriptions for Wall High School

Business Education

Accounting (One Year, 11th/12th Grade) 1 Unit

The objective of the course will be to learn double entry accounting. Students will achieve a working knowledge of all aspects of the accounting cycle. They will also have a basic understanding of accounting principles as they are applied to computerized accounting. Three simulation projects are included. Students will gain knowledge of skills in accounting used in everyday life.

Personal Finance (One Semester, 12th Grade) 1/2 Unit

Personal Finance is a semester course that is an introduction to earning income, planning a budget, consumerism, credit card usage, purchasing and maintaining proper insurance, banking (to include checking, savings), loans (to include house, education, car), investment for retirement (to include CD's, mutual funds, stocks, 401K, Roths, etc.), taxation, charitable giving, and home ownership.

Computer Science

Network+ (One Year, 11th-12th Grade) 1 Unit

The Network+ course is a program teaching the principles and practices of designing, and maintaining computer networks capable of supporting national and global organizations. The student will receive project driven course work for a complete range of basic through advanced network concepts--from pulling cable, through such complex concepts as subnet masking rules and strategies.

Operating System (One Year, 11th-12th Grade) 1 Unit

Operating System is a computer hardware and operating systems class that can lead to a technology certification in computer repair (A+ Certification). Students will learn about computer hardware (everything inside the box) and will assemble a computer. Then they will learn about different operating systems such as Windows 7, Windows 8 and Linux. They will learn set up, configurations, security, trouble shooting, maintenance and repair.

Multimedia Design (One Year, 9th-12th Grade) 1 Unit

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 learn how to select the appropriate medium for each element of the presentation and gauge the needs of clients and the intended audience. In addition to their general academic and technical knowledge and skills, students gain an understanding of career opportunities available in technology and what employers require to gain and maintain employment in these careers.

Topics Covered:

- Create original production pieces, meeting goals, timeline, and elements of style and design.

- Write original copy.
- Effectively incorporate image, audio, animation and text media into multimedia presentation.
- Prepare product for publishing / distribution.
- Implement basic interactivity in a multimedia program.
- Organize the files that are part of a multimedia program logically and efficiently.
- Use software to develop quality images and edit presentations
- Students will utilize the school's webpage and television channel to present medium.

CTE – On-line Classes

Employability/Careers & CTE Foundations (Two Semesters, 9th - 12th Grade) 1 Unit

This is a foundation course for the area of career and technical education where students will complete interactive, student-centered projects and activities in the areas of leadership, career pathways and opportunities, employability skills, interpersonal relationships, personal financial resources, consumer rights and responsibilities, as well as personal health and wellness. A semester of this class is required for participation in FCCLA.

English

(4 Units Required for Graduation)

English I (One Year, 1/2 Grammar 1/2 World Literature, 9th Grade) 1 Unit

English I is a two-semester course that focuses on the principles of grammar, usage, and writing mechanics. It is also an introductory course to the basic elements of literature and composition.

English II (One Year, 1/2 Speech 1/2 Composition, 10th Grade) 1 Unit

Speech is a semester course that gives the students opportunity to work in individual/small group communication projects. Through practice, students will develop effective communication skills. Emphasis is placed on vocabulary, listening, speaking, reading, research, and writing, utilizing technology to develop reports, presentations, and displays. Composition is a semester course that focuses on the different styles of writing (sensory/description; imaginative/narrative; practical/informative; analytical/expository). Students will develop skills in basic grammar, usage, and mechanics.

English III (One Year, 1/2 American Literature 1/2 Composition-Creative and Applied (Career-Orientated) Writing, 11th Grade) 1 Unit

American Literature is a one-semester course. Students are exposed to the various genres of literature displayed in America from Puritan times to present. They complete appropriate assignments regarding the literature studied. Composition is also a one-semester course. Students practice CREATIVE WRITING, in which they experiment with advanced writing techniques. They learn editing skills to improve the quality of their work.

English IV (One Year, 1/2 World Literature 1/2 Composition, 12th Grade) 1 Unit

English IV is a yearlong course. The class concentrates on world literature and

writing. Students will read a variety of short stories, plays, and novels, written by authors from around the world. Writing will be incorporated with the literature and will consist of essays, a term paper, and creative writing. Research skills will also be enforced. Vocabulary from the literature will be taught and review of grammar skills will be provided as needed. A group project will be done each quarter to allow students to work together cooperatively and demonstrate a variety of talents.

AP English Literature and Composition (One Year, 12th Grade) 1 Unit

The objective of this course is to train students to read and analyze quality literature from a wide range of genres and historical periods. Students will be able to explicate a writing's style, themes, literary elements and literary merit. This understanding will be demonstrated through discussion, practice tests and three types of writing: writing to understand (discovering their own reader's response), writing to explain (interpreting the literature), and writing to evaluate (examining the literary merit of a work).

Fine Arts

(1 Unit Required for Graduation)

8-12 Band (One Year, 8th-12th Grade) 1 Unit (1/2 Unit per semester)

The enjoyment of music performance develops hands-on technical skills, solo ability, and sight-reading. Public performance opportunities include concerts, playing for Homecoming, and providing music for athletic contests.

9-12 Chorus (One Year, 9th-12th Grade) 1 Unit (1/2 Unit per semester)

Sing a song that will last a lifetime! Mixed chorus members will develop basic vocal skills while performing all styles of choral music. Opportunities for individual achievement are available. Public performances include concerts.

Creative Art - Comprehensive (One Year, 9th-12th Grade) 1 Unit

In this course students will learn the six elements of design: line, shape, space, texture, color, and value. Projects will be created focusing on each element and on the principles of form. There will be classroom work in clay, watercolor, and colored pencil, and independent projects selected by the students themselves. Art pieces will be made presentable for viewing and an Art Show culminating the year's work will be required for the credit.

Art Portfolio (One Year, 10th-12th Grade) 1 Unit

This course is an in-depth study of the Elements of Design in mediums not explored in Art I including calligraphy, scratchboard, acrylic painting, sculpture, wheel-thrown potter, and linoleum printing. Artwork will be made presentable for viewing in an Art Show (with the Photography display) for the course credit. Prerequisite for this course is Art I.

Foreign Language

Spanish I (One Year, 9th-12th Grade) 1 Unit

Hola Amigos! In Spanish I, students will study the language and learn about Spanish-speaking people around the world. Students will begin to develop proficiency in four basic skills:

listening, speaking, reading, and writing. Students must continue to master and retain skills, as Spanish keeps building on what one knows. Spanish is fun but hard work.

Spanish II (One Year, 10th-12th Grade) 1 Unit

Don't stop now! Most colleges require two years of a foreign language. In Spanish II students will continue to develop proficiency in the four basic skills: listening, speaking, reading, and writing. The emphasis of the class is on communication. Students will also learn about the diverse cultures within the Spanish-speaking countries. Pre-requisite: C or higher in Spanish I.

Mathematics

(3 Units Required for Graduation)

Algebra I (One Year, 8th or 9th Grade) 1 Unit

This is an introductory course in high school algebra. Topics covered will include: operations with real numbers, linear equations and inequalities, functions, polynomials, and factoring quadratic equations.

Geometry (One Year, 9th-12th Grade) 1 Unit

Students discover significant properties and concepts as they construct, measure, and explore geometry. They will work with transformations, triangles, measuring in space, parallel lines, quadrilaterals, similarity, and right triangle trigonometry. Proofs include congruent triangles, parallels, polygons, circles, and similar shapes. Prerequisite: Algebra I

Algebra II (One Year, 10th-12th Grade) 1 Unit

This is a course in advanced high school algebra. Topics covered will include: linear equations and inequalities, matrices, polynomials, quadratic functions, conic sections, rational expressions, exponential functions, and introduction to trigonometric functions.

Transitional Math (One Year, 11th/12th Grade) 1 Unit

This is a senior level class for students who need an appropriate level final year math class. This class typically revisits topics in algebra and geometry from a hands-on perspective when appropriate and emphasizes real-world problems and applications whenever possible. Individualization of programming may be applied to provide each student with appropriate expectations.

Trigonometry (One Year, 11th/12th Grade) 1 Unit

This is an advanced high school mathematics course where students will examine functions, statistics, and trigonometry in order to prepare for everyday life and future courses in mathematics. Students will extend their knowledge of linear, quadratic, exponential, logarithmic, polynomial, and trigonometric functions. Transformations and symmetry will be applied as well as statistical modeling of data with functions. The statistical component will include the criteria for selection of statistical displays while working with both population and sample statistics. Frequency, relative frequency, and probability distributions viewed as functions will be studied with emphasis on binomial and normal distributions. Connections will be made in trigonometry with the geometry, matrices, and complex numbers students have studied in previous years. Students will use trigonometric functions to model periodic phenomena. The purpose of this

class is to serve as a prerequisite for entering precalculus. It will also prepare the student to take AP Statistics, AP Calculus AB, or college calculus.

Pre-Calculus (One Year, 12th Grade) 1 Unit

This is an advanced high school mathematics course. Topics covered will include: polynomial, rational, exponential, and logarithmic functions; trigonometric functions; linear systems and matrices; analytic geometry, and introduction to calculus, using limits.

Physical Education **(1/2 Unit Required for Graduation)**

PE/Health (One Year, 9th-12th Grade) 1 Unit

The physical education and health class will focus on team sports and activities such as flag football, volleyball, badminton, pickleball, ping-pong, and softball. Other activities such as golf, floor hockey and dance may be taught as well. Students are expected to participate in all activities and perform to the best of their abilities. The students will be taught in the health classroom during alternating quarters. During health classes, the students will learn methods to help them make healthy choices to reduce the health risks in our society. They will learn to enhance their personal health and to model for others correct healthy options.

Fitness for Life (One Year, 9th-12th Grade) 1 Unit

This course is designed to provide students with the knowledge and practice of developing the attitudes and habits required for attaining and maintaining a fit and healthy lifestyle. Emphasis is placed on positive character development, health analysis, development and maintenance of cardiovascular efficiency and muscular strength, endurance, and flexibility. Students will also gain an anatomical knowledge of the muscles used in every exercise.

Science **(3 Units Required for Graduation)**

Physical Science (One Year, 9th Grade) 1 Unit

Physical Science is a freshman science class which is required for graduation. Two general areas will be included within the class: physics, which studies different forms of energy and their relationships to each other, and chemistry, which studies the general properties of matter which makes up the world we live in and how different forms of matter may interact with one another. Lab work will stress safe and proper techniques, critical thinking, observation, and data collection and analysis.

Biology I (One Year, 10th Grade) 1 Unit

Biology is the study of living things and how they are alike and different, the relationship among living systems and the interaction of organisms with their environment. This course includes invertebrate and vertebrate zoology, genetics, evolution, microbiology, and plant anatomy. Students learn from many different labs including dissections and the use of the microscope.

Chemistry (One Year, 11th/12th Grade) 1 Unit

Chemistry is a college-prep junior/senior science class that studies the composition, structure, and properties of matter and the changes it undergoes. Topics covered include atomic structure, periodic law, chemical bonding, chemical formulas and compounds, chemical equations and reactions, stoichiometry, characteristics and composition of gases, characteristics of liquids and solids, solutions, and acids and bases. A good background in algebra will be helpful for calculations. Lab work will stress safe and proper techniques, critical thinking, observation, and data collection and analysis. **Prerequisite: successful completion of Algebra I.**

Conceptual Chemistry (One Year, 11th/12th Grade) 1 Unit

This course is a junior/senior science class intended for the student planning to attend technical school or college with intent to major in a non-science area. This course will deal with general chemistry topics. Topics covered include atomic structure, periodic law, chemical bonding, chemical formulas and compounds, chemical equations and reactions, stoichiometry, characteristics and composition of gases, characteristics of liquids and solids, solutions, and acids and bases. A good background in algebra will be helpful for calculations. Lab work will stress safe and proper techniques, critical thinking, observation, and data collection and analysis.

Physics (One Year, 11th/12th Grade) 1 Unit

Physics is a college-prep junior/senior science class that studies the physical world, particularly various types of energy and the relationships between them. Topics to be covered include motion, forces, vectors, work and energy, momentum and collisions, circular motion and gravitation, fluid mechanics, heat, thermodynamics, vibrations and waves, sound, light and its properties, electric forces and fields, and electromagnetism. Algebra and trigonometry are math tools used frequently in calculations. Lab work will stress safe and proper techniques, critical thinking, teamwork, observation, and data collection and analysis. **Prerequisite: completion of Algebra II.**

Earth/Space Science (One Year, 11th/12th Grade) 1 Unit

This course examines the structure of our planet, atmosphere, and universe. Various topics include plate tectonics, rocks, minerals, weathering, atmosphere, weather, stars, our solar system, and the moon. This course utilizes lecture and labs that correlate with the world around them to help students appreciate the study of earth science.

AP Biology (One Year, 11th/12th Grade) 1 Unit

This course is designed using advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The Big Ideas that AP Biology is based on:

1. The process of evolution that drives the diversity and unity
2. Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis
3. Living systems store, retrieve, transmit and respond to information essential to life processes.
4. Biological systems interact, and these systems and their interactions possess complex properties.

Social Science

(3 Units Required for Graduation)

Geography (One Year, 9th Grade) 1 Unit

Geography is a state mandated one semester social science class that WHS provides during the sophomore year. The course covers physical, cultural and regional geography. Emphasis is given to map interpretation and geo-political divisions found on earth. Geography is considered the focal point around which all social sciences revolve.

World History (One Year, 10th Grade) 1 Unit

World history is a state mandated one semester social science course that will allow students to analyze historical eras of world history to determine connections and cause/effect relationships in reference to chronology from the Renaissance to the present. Students will evaluate the interactions of world cultures, civilizations, philosophies, and religions from the Renaissance to the present.

United States History (One Year, 11th Grade) 1 Unit

State requirements dictate that one year of United States History will be successfully completed by graduates of our State. Students study the development of our nation from discovery by the Asians to the constitutional crisis of the Civil War during the first semester. The second semester covers our history from 1885 to the present. Students are encouraged to analyze our past so they can have a positive impact on the future.

AP History (One Year, 11th Grade) 1 Unit

This course is designed to provide a college-level experience and preparation for the AP Exam in May (cost to be announced annually). An emphasis is placed on interpreting documents, mastering a significant body of factual information, and writing critical essays. Topics include life and thought in colonial America, revolutionary ideology, constitutional development, Jeffersonian and Jacksonian democracy, nineteenth-century reform movements, and Manifest Destiny. Other topics include the Civil War and Reconstruction, immigration, industrialism, Populism, Progressivism, World War I, the Jazz Age, the Great Depression, the New Deal, World War II, the Cold War, the post-Cold War era, and the United States at the beginning of the twenty-first century. This course will fulfill the United States history graduation requirement.

United States Government (One Year, 12th Grade) 1 Unit

One semester of United States Government is required by the State of South Dakota to receive a high school diploma. To better encourage WHS students to become actively involved in our political institutions, our school district facilitates the understanding of political science by offering government during the senior year. Political theory and the federal systems are covered in the first semester while state government, local government, and criminal law are covered in the second.

Senior Experience (One Semester, 12th Grade) 1/2 Unit

Senior Experience is a required high school capstone class that requires students to demonstrate what they know and can do. It consists of preparation of a research paper, creation

of a product that is an appropriate and logical extension of the paper, a portfolio including specific writing throughout the project period, and a presentation before a senior project panel.

Agriculture Education (all are approved CTE courses)

Ag I – Intro to Ag, Food, & Natural Resources (One Year, 9th Grade) 1 Unit

This course allows students to study a variety of agricultural topics throughout the seven Agriculture, Food and Natural Resources pathways. It serves as an introduction to much of the coursework included within the Agriculture, Food and Natural Resources Cluster. Application of clinical and leadership skills are provided by participating in FFA activities, conferences, and skills competitions such as career development events (CDEs) and agricultural proficiency awards. Each student will complete a Supervised Agricultural Experience (SAE) Program/Internship.

Ag II - Fundamental Animal Science/Ag Processing Tech (One Year, 10th Grade) 1 Unit

Fundamental Animal Science will address the basic knowledge and skills necessary to care for and meet the needs of animals. Classroom and laboratory content should be enhanced by utilizing appropriate equipment and technology. Algebra, English, biology and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips. This class is reinforced through the FFA and SAE activities such as the Livestock Career Development Event and Proficiency Awards. Each student will be expected to complete a Supervised Agricultural Experience (SAE). Ag Processing Technology highlights the raw commodity and its journey to consumer-ready, value-added products. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Mathematics, science, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises, field trips and internships. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conferences and skills competition such as Food Science, Meats Evaluation and Dairy Foods. Each student will be expected to complete a Supervised Agricultural Experience program.

Ag III - Fundamental Ag Mechanics (One Year, 11th Grade) 1 Unit

This course is offered to help students build basic knowledge and skills in the area of Agricultural Mechanics. More substantial knowledge on the individual topics comes in advanced courses such as Ag Power Technology, Ag Metal Fabrication, Fundamental Ag Structures and Advanced Ag Structures. South Dakota demand in agricultural mechanics is increasing with a shortage of certified mechanics. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Algebra, geometry, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conferences and skills competition such as the Ag Mechanics Career Development Event or related proficiency award areas. Each student will be expected to complete a Supervised Agricultural Experience program.

Ag IV - Ag Business Sales & Marketing (One Semester, 12th Grade) 1/2 Unit

This course is designed to help students become familiar with the farm business. Areas of

study include accounting, establishing goals, decision-making, Ag law taxes, marketing principals, futures, and options. Students will prepare State Degree applications and scholarship applications. Students will receive career training in interviewing, resume writing, letter writing, and job shadowing. Students will also be given a chance to work on individual projects with individual instruction.

Ag IV - Fundamental Ag Structures Tech (One Semester, 12th Grade) 1/2 Unit

This course is offered to meet the basic needs of agricultural structures industry. South Dakota demand is increasing with a shortage of certified electricians, plumbers, contractors and mechanics. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Algebra, geometry, trigonometry, English and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips. This class is reinforced through the FFA and SAE programs, the Ag Mechanics Career Development Events and related Proficiency Awards areas. Each student will be expected to complete a Supervised Agricultural Experience or Internship program.

Ag Metal Fabrication Tech (One Year, 10th-12th Grade) 1 Unit

The Ag Metal Fabrication Technology course prepares students for careers in the metal fabrication industry in the Power, Structural & Technical Systems Career Pathway. Classroom and laboratory content will be enhanced by utilizing appropriate equipment and technology. Geometry, physical science, physics, English and human relations skills will be reinforced in the course. Work-based learning opportunities appropriate for this course are school-based enterprises and field trips. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conference and career development events. Each student will be expected to complete a Supervised Agricultural Experience program.

*Juniors and seniors also have the option to take one or more online AP courses through Learning Power (NSU E-learning Center). This would make them eligible for college credit (depending on the results of their AP exam at the end of the school year). There are opportunities to take AP courses in the areas of English, Calculus, Biology, Physics, Statistics, & Chemistry. Contact the Wall School Guidance Counselor or go to <http://learningpower.tie.net> for details. Students also have the option to take online classes via SD Virtual High School or Odysseyware if there are conflicts with their schedule, and/or if approved by the principal.