

2024-25 SCOTLAND HIGH SCHOOL COURSE DESCRIPTIONS

The following required and elective courses are being offered at SHS for the 2024-25 school year. Each class is listed according to department as well as grade level and amount of credit. Credits needed for graduation are listed after the department title. Note: Required credits listed are the minimum credit requirements listed for South Dakota high school graduation.

8th Period courses are on a separate course listing.

MATHEMATICS (3 CREDITS REQUIRED FOR GRADUATION to include: 1 credit of Algebra I and 2 credits of Math Electives)

Algebra I

1 credit

Grades 8, 9

This course is designed to prepare students for success in Algebra II and beyond. It is a required class for high school graduation. Topics covered are solving equations, solving inequalities, solving compound inequalities, working with formulas, and doing operations with polynomials. We will also cover a unit on linear relationships and equations. If time permits, we will also learn how to factor polynomials.

Algebra II

1 credit

Grades 10, 11

Algebra II is an advanced Algebra course that will build on the material that we learned in Algebra I. It will also give the students a deeper understanding of algebraic concepts and problem solving. The students will begin the year with a review of the concepts learned in Algebra I. After finishing the review, students will learn how the equations and inequalities that they learned about in Algebra I can be applied to solve problems. The students will learn about systems of equations, and how they too may be applied to solve problems. We will also spend time working with functions and relations. We will cover how to recognize, evaluate, and graph functions. We will learn how to factor polynomials, and use factoring to solve polynomial equations and inequalities.

General Math

1 credit

Grades 9, 10

This course will start with whole number operations. It then evolves into integer discussions and solving equations. Fractions, mixed numbers, decimals, ratio, proportions and percents are covered in depth. Different types of graphs will be discussed. Linear equations will be graphed. Geometry topics including perimeter, area, volume and conversions between systems will be addressed. A unit on polynomials will also be covered.

Geometry

1 credit

Grades 9, 10

Prerequisite: Algebra I

Concepts covered in Geometry include proofs, triangle congruence, parallel lines, perimeter, area, prisms, three-dimensional coordinates, surface area, volume, similar shapes, circles, and right triangle trigonometry. This course involves a lot of reasoning skills. Students will need a scientific calculator.

Trigonometry/Pre-Calculus (DDN Distance Learning – Statewide E-Learning) 1 credit Grades 11, 12

This is a college preparatory class that is intended for upper-level Seniors and Juniors that are planning on going to college. This course will help students prepare for Calculus as well as other college Math courses. Topics covered are Right-Triangle Trigonometry, the Law of Sines, and the Law of Cosines. Students will learn the Fundamental Trigonometric Identities, and use them to verify other Identities.

They will also learn about some of the other identities that are used in Trigonometry such as the Half Angle Identities, the Double-Angle Identities, and Sum and Difference Identities. Will also learn how to create the graphs of the trigonometric functions, and the different transformations that can affect those graphs. If time permits, we will also learn how to solve trigonometric equations.

LANGUAGE ARTS (4 CREDITS REQUIRED FOR GRADUATION to include: 1 credit of Writing, 1 credit of Literature (0.5 credit of American Literature), and 0.5 credit of Speech)

English I

1 credit

Grade 9

English 1 is the first high school English class that students will take. This class is meant to introduce them to more difficult reading and writing and prepare them for their subsequent high school English classes. This is a two semester class that consists of instruction in literature, composition, grammar, and vocabulary. Students will read shorter fiction and non-fiction works out of a literature textbook as well as a few novels. They will be expected to complete weekly/bi-weekly grammar and vocabulary lessons and write compositions such as a literary analysis, an informative research paper, and others. All students will also be expected to complete an outside reading project.

English II

0.5 credit

Grade 10

English II consists of a grammar and composition class and a speech class. This is a one semester class that consists of instruction in literature, composition, grammar, and vocabulary. Students will read 2 novels, one Shakespeare play, and a few short stories. They will also be expected to complete weekly/bi-weekly grammar and vocabulary lessons and write compositions such as literary analysis and personal narratives. All students will also be expected to complete an outside reading project.

Speech

0.5 credit

Grade 10

This is a one semester class that consists of instruction in research, organization, outlines, and citations as well as composing and delivering speeches. Students will be expected to complete weekly/bi-weekly grammar and vocabulary lessons and compose several speeches: introductory, demonstration, informative, persuasive, and others. All students will also be expected to complete an outside reading project.

English III

1 credit

Grade 11

Grammar/Composition III and American Literature

English III consists of a grammar and composition class and an American Literature class. Both grammar and composition and literature are intermixed within both semesters. In this course, students will study American literature from pre-colonial times through the present. They will also read at least three novels that are considered American classics. In addition to this, students will learn how to research, outline, use citations, and compose various styles of writing. They will be expected to complete weekly/bi-weekly grammar and vocabulary lessons as well. All students will also be expected to complete an outside reading project.

English IV

1 credit

Grade 12

Grammar/Composition IV and British Literature

English IV consists of a grammar and composition class and a British Literature class. Both grammar and composition and literature are intermixed within both semesters. In this course, students will study a variety of British Literature ranging from plays by William Shakespeare to short stories, novels, and poetry from other British authors. In addition to this, English IV students will be expected to complete several different writing assignments ranging from personal narratives to cause and effect papers to creative writing pieces. All students will also complete an eight page research paper where they will be

expected to use multiple sources, create citations, outline the paper, and compose an organized and grammatically correct paper. Additionally, students will be expected to complete weekly/bi-weekly grammar and vocabulary lessons and an outside reading project.

Yearbook

0.5 credit per semester

Grades 10-12

Yearbook is a course in which any students in grades 9-12 can get credit for working on the school's yearbook. This course will consist of instruction in composition of stories and captions, photography, and proper page layout design. This course will also consist of actual hands-on practice of those skills as students compose that year's yearbook.

SCIENCE (3 CREDITS REQUIRED FOR GRADUATION to include: 1 credit of Biology and 2 credits of science electives)

Physical Science

1 credit

Grade 9

This is a required class for all ninth graders. It will prepare students for Physics and Chemistry, as well as give them an understanding of some basic scientific laws and principles. Topics covered are properties of matter, the scientific method, the SI System, and significant digits, and scientific notation. We will also learn about speed, velocity, acceleration, forces, energy, and work. Some Chemistry topics will also be covered such as elements, compounds, mixtures, and the Periodic Table.

Biology I

1 credit

Grade 10

Biology is the study of life and how living organisms interact with each other and their surroundings. Biology I is a required class for all 10th graders. Topics covered include the cell, genetics, photosynthesis and respiration, evolution, ecology, viruses and bacteria, as well as general overviews of plants, vertebrates, and invertebrates.

Chemistry

1 credit

Grades 11, 12

Prerequisite: Physical Science and Biology I

Topics covered include the atom, the periodic table of elements, chemical formulas and equations, stoichiometry, gas laws, acid and base properties, and reduction - oxidation reactions. This class is less mathematical than Advanced Chemistry. It is also application based. Students will need a scientific calculator. This course is offered every other year.

Biology II

1 credit

Grades 11, 12

Biology II is essentially an extension of the material that is covered in Biology I with more depth being given to the subject matter. Topics covered over the course of the year include but are not restricted to Geological history, Natural Selection, Taxonomy, Populations, Ecology, and the study of each of the six biological kingdoms.

Chemistry

1 credit

Grades 11, 12

Prerequisite: Physical Science and Biology I

Chemistry is the study of matter and how it interacts with its surroundings. Course content is very **mathematical and theoretical** in nature. Topics covered include the atom, the periodic table of elements, chemical formulas and equations, stoichiometry, gas laws, acid and base properties, and reduction - oxidation reactions.

Physics**1 credit****Grade 12**

Physics is the study of motion and is concerned primarily with the relationship between matter and energy. **Course content is highly mathematical in nature.** Topics covered include velocity, acceleration, friction, force, torque, vectors, periodic motion, optics, sound, electricity, and heat.

SOCIAL STUDIES (3 CREDITS REQUIRED FOR GRADUATION to include: 1 credit of U.S. History and 0.5 credit of U.S. Government)**U.S. Government****0.5 credit****Grade 12**

This course will consider how the governmental system in America is organized, how it is controlled by the people, and how it works. Students will learn how their many rights have developed and changed, and they will gain knowledge on the need to be informed and involved citizens. Students will study the basic principles of government and its origin, take an in-depth look at the branches of government and the Constitution, and will study political parties and the electoral process.

U.S. History**1 credit****Grade 11**

Students will experience history through the words, artwork, and music of the people who lived it. From post-Civil War to the 1960's and the civil rights movement and on to September 11, 2001, they will gain an understanding of why certain actions were taken and how those actions affect the world today.

World Geography**0.5 credit****Grade 10**

This World Geography course will attempt to spark students' interest in different places around the world and to get them excited to learn about the people that live in these different places. We will also learn about how some of these people and places affect our lives here in South Dakota. Some of the places that we will learn about are Central and South America, Europe, Asia, Canada, and Africa. This class will stress basic map skills and physical geography, landforms, climates, and cultural geography.

World History**0.5 credit****Grade 10**

This World History course will focus on early civilizations and empires of the ancient world. Students will understand the emergence and development of world civilizations and cultures over time and place. They will analyze historical eras of World History to determine connections and cause/effect relationships in reference to chronology. Students will evaluate the interaction of world cultures and civilizations, philosophies, and religions. Topics covered will include the beginnings of Europe and the Americas, the American, French, Russian, and Industrial Revolutions and World War I.

Civics**0.5 credit****Grades 9-12**

Civics courses examine the general structure and functions of U.S. systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve to the same degree of detail into constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

BUSINESS/CAREERS/TECHNOLOGY**Robotics****0.5 credit****Grades 9-12**

This course emphasizes the design, building, operation, application, and documentation of robotic systems. In Robotics students will build several Lego Mindstorm robots, some of which include the Color

Photography II will be a continuation of Photography I and will expand the skills used. It will provide the advanced photography student with practical knowledge and highly advanced skills for a comprehensive career in photography. Students will explore advanced lighting and editing techniques and the commercial distribution of photographic works.

FINE ARTS / MUSIC

HS Introduction to Art

0.5 credit per semester

Grades 9-12

Intro to Art is designed to provide students with a foundational understanding of elements of art, principles of design, and art techniques of two-dimensional art. This course explores various art mediums including pencil, colored pencil, watercolor, acrylic, charcoal, pastel, and collaging. It focuses on building creativity skills and craftsmanship skills. Students will learn how to create ideas, sketch, and revise. They will complete several art projects to include presenting their projects to the class and critiquing others.

HS Band

0.5 credit per semester

Grades 8-12

Instrumental music involves many areas of music including marching band, concert band, pep band, and solo and ensemble competition. In marching band, students perform and compete in parades in the Fall. Throughout the school year the concert band performs at least two concerts, competes in the large group contest, and plays for homecoming and graduation.

Students will work towards the following goals:

- 1.) Rehearsing and performing instrumental music in an ensemble setting.
- 2.) Developing an ensemble focuses around treating others with respect and kindness.
- 3.) Learn to read and understand musical notation.
- 4.) Develop instrument playing, tuning, and listening skills.
- 5.) Develop performance etiquette, poise, and confidence.

FAMILY AND CONSUMER SCIENCE

Child Development I

0.5 credit

Grades 9-12

Prenatal to a toddler is a semester course, designed to help students learn about children in a parenting role or as a career working with children. This course is designed to develop skills, attitudes, and behaviors associated with supporting and nurturing the growth and development of children in the role of a parent or caregiver. It will also give the opportunity to explore the potential careers available if interested in working with children. Topics that will be included in this course: Human development theorists, Influences on human growth and development, Prenatal development, Development of infants, and toddlers.

Child Development II

0.5 credit

Grades 9-12

Must take Child Development I prior to taking this course. The focus of this course is to learn about the growth and development of children ages 3-12. Students will gain knowledge, skills, and attitudes needed to work with this age group in the role of care giver or future parents. Projects and activities focus on integrating child development concepts with the skills needed to provide a nurturing and engaging environment. Topics that will be included in this course: Social, Emotional, Cognitive development of preschoolers, school age, Encouraging Children's Play Experiences, Protecting Children's Physical Health and Safety, Handling Family-Life Challenges, Meeting Children's Special Needs.

Introduction to Design

0.5 credit

Grades 9-12

Interior Design I courses provide students with basic knowledge regarding furnishing and decorating home environments. While exploring design principles, personal or customer needs and style, and decision making, students may also explore the following topics: color, texture, furniture styles and arrangement, lighting, window treatments, floor and wall coverings, and home improvement/modification. Home Furnishing courses may also cover architectural style and design and take a larger look at housing problems or current housing issues.

Fashion Design

0.5 credit

Grades 9-12

Fashion Design courses introduce students to and expand upon the various aspects of apparel, garment construction, and the textile industry, conveying the commercial application of design principles, production processes, and maintenance techniques. These courses usually address the selection, characteristics, care, and repair of various textiles; operation and care of commercial sewing machines; design, construction, and production of fabrics and/or garments; and career opportunities in the garment or textile industry.

Nutrition and Wellness

0.5 credit

Grades 9-12

Nutrition and Wellness educates students to make healthy lifestyle choices for personal, family, and career success across the lifespan. Topics include the impact of technology on nutrition, food choices, wellness and stress management, meal planning and preparation, dietary guidelines, and food safety and sanitation practices.

Agricultural / Industrial Technology

Fundamental Ag Structures I (Ag Woods 1)

0.5 credit

Grades 9-12

This course will provide students with the opportunity to learn the basic skills and safety needed to use hand tools and power tools individuals use everyday in the agricultural structures industry. Other skills to be explored in this class associated with these skills are drafting plans, fundamentals of

concrete, and basic electrical work. A hands-on class of this nature is reinforced through a Supervised Agricultural Experience (SAE) programs in FFA as well as the Ag Mechanics Career Development Events (CDE).

Fundamental Ag Metal Fabrication I (Ag Welding 1) **0.5 credit** **Grades 9-12**

The welding class will provide students with the opportunity to work on hands-on and soft skills associated with metal fabrication. Hands-on work in the shop setting will include Shielded Metal Arc Welding (SMAW), Metal Inert Gas Welding (MIG), and using the Plasma Cutter to cut metals. Students will be immersed in a simulated environment of being in an industry position. This will allow students to apply the knowledge they have gained to create or finish projects individuals in the field may experience. An opportunity to visit a business in the industry is a possibility. With the hands-on nature of this class can be reinforced through the Ag Mechanics Career Development Event (CDE) and Supervised Agricultural Experience (SAE) programs. All students will be expected to maintain records throughout the semester.

Fundamental Ag Metal Fabrication II (Ag Welding 2) **0.5 credit** **Grades 9-12**

The welding class will provide students with the opportunity to work on hands-on and soft skills associated with metal fabrication. Hands-on work in the shop setting will include Shielded Metal Arc Welding (SMAW), Metal Inert Gas Welding (MIG), and using Oxyacetylene Torch to cut metals. The possibility of learning how to TIG weld is possible. Students will be immersed in a simulated environment of being in an industry position. This will allow students to apply the knowledge they have gained to create or finish projects individuals in the field may experience. An opportunity to visit a business in the industry is a possibility. With the hands-on nature of this class can be reinforced through the Ag Mechanics Career Development Event (CDE) and Supervised Agricultural Experience (SAE) programs. All students will be expected to maintain records throughout the semester.

Intro to AFNR **0.5 credit** **Grades 9-12**

This course will provide students with the opportunity to study a large array of agricultural topics that correspond with the seven Agriculture, Food, and Natural Resource Pathways:

- Food Products and Processing Systems
- Plant Systems
- Animal Systems
- Power, Structural, and Technical Systems
- Natural Resources Systems
- Environmental Service Systems
- Agribusiness Systems

It serves as an introduction to many other agriculture classes. The application of the knowledge and leadership skills are provided in actively participating in classroom projects and FFA activities like Career Development Events. Classroom and lab work will be enhanced by relevant equipment, technology, and speakers from the industry.

Animal Science **0.5 credit** **Grades 10-12**

This course will provide students with the basic knowledge and skills needed to care for and meet the basic needs of animals. It will also help build on soft skills needed for careers in the agricultural industry. Topics that will be addressed this semester:

- Animal anatomy and physiology
- Animal health
- Safety precautions when working with animals
- Animal nutrition
- Reproductive systems
- Animal industry issues
- Employability

The application of the knowledge and leadership skills will be used when actively participating in classroom projects and FFA activities like Career Development Events. Classroom and lab work will be enhanced by relevant equipment, technology, and speakers from the industry.

Vet Science

0.5 credit

Grades 11-12

Vet Science will address knowledge and skills needed to care for animals. The basic use of equipment and technology with animals as well as how to handle animals in certain situations like veterinary may be dealt with on a regular basis. Specific topics to cover include:

- Animal health care practices
- Nutrition management
- Reproductives practices
- Medical terminology
- Animal classification
- Surgical techniques
- Employability skills

Natural Resources

0.5 credit

Grades 10-12

All of us depend on natural resources. Everything is shaped by how we use the land, water, plants, and wildlife. South Dakota's resources of minerals, forests, ranges, wetlands, lakes, rivers, soils, along with all of the connected domestic and native plant and animal communities play an important role in our state's economic health. The small and larger ecosystems make up the environment around us. This class will provide students with an overview of the planet's natural resource system, especially focusing on what is unique to South Dakota. Students will explore the basic understanding of how the systems relate to each other while considering the role we play in it as humans. Occupations related to managing, using, protecting, and conserving natural resources will be explored to display the wide array of opportunities in this field of study.

PHYSICAL EDUCATION/HEALTH

Physical Education (This is required for graduation.) 0.5 credit

Grade 9

Freshman P.E. is a one semester class that explores life time activities. The class will spend time learning the rules and variations of sports like volleyball, basketball, flag football, weight lifting/fitness and archery. The first semester is reserved for exploring a variety of intramural type sports. Volleyball, Flag Football, Tennis, Basketball and Bowling are some of the sports students can expect to play. Also

included is a three week session in the weight room to discuss proper form, etiquette and keeping all areas clean.

Health (*This is required for graduation.*)

0.5 credit

Grade 9

Freshman Health is also a one semester class which explores a variety of health related topics. Students will be taught what health is and how it has changed over time, they explore the body systems and proper nutrition. We also explore the harmful effects of alcohol and new for this year we will be studying Life Style Diseases such as diabetes, cardiovascular disease, strokes and cancer.

Fitness and Conditioning I

0.5 credit

Grades 10-12

Fitness and Conditioning focuses on the proper techniques of weight lifting and conditioning of the body. Students will explore sport specific weight lifting programs, pre-season, in-season and postseason. Students create their own goals and manage their own weight program throughout the semester and calculating their progress. Students will also explore different fitness programs such as plyometrics and incorporate them into their daily routines. Fitness and Conditioning also explores weight lifting programs for those students that just have personal fitness goals that they want to obtain. These students will learn that cardiovascular health is just as important as physical strength.

FOREIGN LANGUAGE (DDN Distance Learning – Statewide E-Learning)

Spanish I

1 credit

Grades 10-12

Goals in the classroom of a world language include speaking in the target language, reading material, writing patterns of language, understanding ideas and phrases, and developing an awareness and appreciation of heritage. Spanish 1, being the foundation, provides an introduction to and reinforces these objectives.