

# **BELLE FOURCHE HIGH SCHOOL**



**2024-2025**

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***\*\*A semester long class is equal to ½ credit. A two-semester class is equal to one full credit.***



***2-D Media***  
***Mrs. Bastian***

**One Semester**

**Grades 9-12**

This is a course that integrates design concepts with drawing and painting techniques in a variety of media to help students become aware of their abilities and interest.

***Mixed Media***  
***Mrs. Bastian***

**One Semester**

**Grades 9-12**

This course will emphasize combining media to create 2-D and 3-D projects. A variety of media will be used including acrylics, watercolor, and colored pencils.

***Photography***  
***Mrs. Bastian***

**One Semester**

**Grades 12**

This course will cover the basics of picture taking, film processing, and enlarging in black and white. The students will learn how to operate a 35mm SLR camera with manual adjustments as well as using current digital technology.

***Crafts***  
***Mrs. Bastian***

**One Semester**

**Grades 9-12**

This course will explore a variety of craft techniques in areas of jewelry making, copper enameling, glass etching, paper making batik, beading, and weaving. It will also explore characteristic crafts from a variety of ethnic cultures from around the world.



# Business/Computers

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## ***Computer Technology***

*Mrs. Day*

**One Semester**

**Grades 9-10**

The focus of this required course is on the student as a user of personal computer applications. This multimedia course covers a working knowledge of the functions and components of a computer system and an applied knowledge of Windows and Office 365. Career planning and post-secondary options are examined as well as the internet.

## ***HS Student Internship***

*Mrs. Day*

**One Semester**

**Grades 11-12**

Students will participate in a youth internship, which allows them the opportunity to consolidate and apply the learning from their high school coursework in to a meaningful and relevant on-the-job experience. Through working with an adult mentor at the worksite, students have the opportunity to develop a foundation of general workplace skills and to acquire information and skills in their chosen career cluster/pathway.

## ***Personal and Business Finance***

*Mrs. Day*

**One Semester**

**Grade 12**

Students enrolled in this course will understand the importance of taking responsibility for personal financial decisions. They will learn information related to career decisions, taxation, money management tools and time value of money. Students will analyze housing and transportation options, create spending plans, explain responsible use of credit and develop risk management strategies. **\*\* This course will be required of all students beginning with the class of 2010**

## ***Accounting/Business***

*Mrs. Day*

**Two Semesters**

**Grades 10-12**

This course is designed to give the students a solid background in the basics of accounting and bookkeeping from a business world perspective. Students will also learn about checking accounts, work related issues such as W-2's and payroll taxes, income taxes and preparing income tax returns, business law, and other important elements of business



# English

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## **English 9A**

**Ms. Kappen**

**One Semester**

**Grade 9**

This required class focuses on all genres of literature, including one Shakespearean play. Students learn the foundation of literary elements and will write in expository and narrative forms.

## **English 9B**

**Ms. Wenk**

**One Semester**

**Grade 9**

This required course explores texts in mythology, non-fiction, and poetry. During these units, students will identify literary elements. Students improve their writing through narrative, expository, and argumentative styles. In addition to reading and writing, students gain skills and knowledge in grammar and vocabulary.

## **Speech**

**Mrs. Krajewski**

**One Semester**

**Grade 10**

This required course is designed to teach students fundamental speaking techniques by presenting impromptu, informative, persuasive, oral interpretation, and special occasion speeches. This class will emphasize the preparation, process, and presentation of speeches through extemporaneous speeches.

## **English 10**

**Mrs. Thomas**

**One Semester**

**Grade 10**

This required class is a survey of all types of literature that encompasses a variety of genres, but mainly focusing on pieces with historical context. There will be constant analysis of the literature over the literary elements through discussion, analysis writes, and extended writes. Major writes include a narrative, persuasive, and a research paper that employ varying techniques of writing with a strong emphasis on revision skills. The course will consistently focus on the use of formal language in our writing and using reading techniques to increase our comprehension.

## **YA Literature**

**Mrs. Thomas**

**One Semester**

**Grades 9-12**

This course is designed to explore various genres and popular themes within Young Adult literature. The focus is to read multiple books independently, in groups, and as a class to promote in-class discussions and get a more complete picture of this type of literature. We will also analyze the impact of various novels on young adults and the influences behind their actions.

## **English 11 A & B**

**Mrs. Krajewski; Ms. Kappen**

**One Semester (each)**

**Grade 11**

**English 11 A (Mrs. Krajewski):** This class is required for juniors. Students in this course read and carefully analyze a broad and challenging range of nonfiction and fiction, poetry, and drama selections, deepening their awareness of rhetoric and how language works while handling high school American Literature from the 1600's through the civil War covering Oral Traditions, Founding Fathers Narratives, Romantics, Dark Romantics, Transcendentalism, and the start of realism. Through close reading and frequent

writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. Course reading and writing activities should help students gain textual power, making them more alert to an author's purpose, the needs of an audience, the demands of the subject, and the resources of language: syntax, word choice, and tone. Often, this work involves long-term writing and reading assignments, so effective time management is important. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose.

\*\*English 11 A will cover the **PREREQUISITE:** 10 English

**English 11 B (Ms. Kappen):** This class is required for juniors. Students in this course read and carefully analyze a broad and challenging range of nonfiction and fiction, poetry, and drama selections, deepening their awareness of rhetoric and how language works while handling high school American Literature from realism through the Contemporaries. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. Course reading and writing activities should help students gain textual power, making them more alert to an author's purpose, the needs of an audience, the demands of the subject, and the resources of language: syntax, word choice, and tone. Often, this work involves long-term writing and reading assignments, so effective time management is important. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose.

\*\*English 11 B will cover the **PREREQUISITE:** 10 English.

## ***English 12 A & B*** ***Mrs. Thomas; Mrs. Wenk***

**One Semester (each)**

**Grade 12**

**English 12A (Mrs. Thomas):** This course covers the chronological study of British and World literature from its oral traditions to the age of Shakespeare. There is a heavy emphasis on understanding the culture surrounding each piece of literature that we read, so that we can better analyze and create connections within the text. The class also offers writing curriculum suitable for college or workplace application.

**English 12B (Mrs. Wenk):** This required course is a study of British literature that focuses on the cultural and historical context of literature from the Romantic, Victorian, and Modern periods. The writing includes narrative, literary analysis, and argumentative conventions. Additionally, the course requires students to conduct and share research, participate in frequent class discussions, and complete vocabulary and grammar assessments.

## ***Creative Writing*** ***Mrs. Wenk***

**One Semester**

**Grades 9-12**

**Students write in a variety of genres to practice character development, descriptive language, story lines and dialog. This class requires a strong desire to write and self-motivation, as students will spend a lot of time working on independent projects.**

## ***Journalism 1*** ***Mrs. Krajewski***

**Two Semesters**

**Grades 9-12**

We will first discuss what Visual Media is and how it affects the lives of people. We will discuss media law and what is acceptable use (copyrights, pictures in public, and using other web information). For publishing we will be working with in design and Photoshop to create a tri-fold brochure, create a newsletter. We will spend time learning to use Photoshop and digital cameras, talking about light, f-stop, and time-lapse photos. We will discuss ethics of photo manipulation and learn how to use some great effects in Photoshop. We will try to visit the closest Newspaper/Print shop to see printing and production with the Journalism 2 (Commercial Graphic Design Class).

**PREREQUISITE:** English with an 85% or better.

**Journalism 2**  
**Mrs. Krajewski**

**Two Semesters**

**Grades 10-12**

We will create an advertisement, a logo, create a tri-fold brochure, and a small magazine. We will go more in-depth with typography, Design and layout: trapped white space, T-flow and Z-flow, and top to bottom. The class will learn about 4 color printing, the difference between screen RGB and true r4-color presses. We will learn about pantone colors and spot colors. We will learn about fonts and font families: leading and kerning. We will learn about serif and Sans serif. We will play a little in illustrator to modify a font We will also dig more into color and designing with color: color wheel and feelings color creates. There will be a discussion about the trends in magazines and in advertising. To wrap up the year, we will visit our newspaper, which functions much like a professional printer as they create advertising inserts for the newspaper. We will see their custom print jobs and how the newspaper functions. When we do the magazine, the class will actually divide into teams and each team will have an Editor in Chief, Managing Editor, Copy Editor, and a photography Editor. This will help them get a taste of what professional journalism is like. We will discuss what is required of each position and what training each position requires.

**PREREQUISITE:** English with an 85% or better and Journalism 1 with an 85% or better.

**Rising Scholar College Composition 1**  
**Ms. Kappen**

**One Semester**

**Grade 12**

This course satisfies the English requirement for the senior year. AP English is a course in literature and composition at an advanced level to prepare students for college English with an emphasis on British authors but including comparative literatures and works from American and World authors. The course asks students to closely read demanding works of prose and poetry and to write about them. The writing will consist of essays and literary criticisms.

**PREREQUISITE:** must meet one of the following requirements:

- Earn an ACT composite score of 21 reflective of the 50% percentile: or
- Rank in the upper one-half of their graduating class; or
- Earn a cumulative GPA of at least 3.25 on a 4.0 scale.

**Rising Scholar College Composition 2**  
**Ms. Kappen**

**One Semester**

**Grade 12**

This course satisfies the English requirement for the senior year. AP English is a course in literature and composition at an advanced level to prepare students for college English with an emphasis on British authors but including comparative literatures and works from American and World authors. The course asks students to closely read demanding works of prose and poetry and to write about them. The writing will consist of essays and literary criticisms.

**PREREQUISITE:** Composition 1

**Media Studies**  
**Ms. Schlekeway**

**Two Semesters**

**Grades 11-12**

In this hands-on class, students will explore the four types of media: print, broadcast, outdoor and the Internet. Students will study the trends and advancements of media throughout history and will examine media tools from past to the present. As a project-based class, students will show what they are learning by highlighting media in original, authentic products and sharing them with their peers. **MAXIMUM 20 STUDENTS.**



# Foreign Language

## ***Spanish 1*** ***Mrs. Green***

**Two Semesters (One Credit CTE)**

**Grades 9-12**

Spanish 1 provides students with exposure to the four basic skills of reading, writing, listening, and speaking. Students will learn the basic grammatical structures of the language and several core vocabulary phrases. Students will also study the geography and culture of many Spanish-speaking countries. Classes are taught with a variety of activities, including but not limited to stories, novels, songs, games, TPRS, Comprehensible Input and small and large group activities. Students are expected to participate in class with a good attitude. Students are expected to communicate in Spanish at their ability level.

## ***Spanish 2*** ***Mrs. Green***

**Two Semesters (One Credit CTE)**

**Grades 10-12**

Spanish 2 students will build on first-year coursework and acquire additional vocabulary and grammar with the goal of engaging in authentic communication tasks needed when traveling in Spanish-speaking countries. Students will continue to work on the four basic principles of learning a language: speaking, reading, writing, and listening. Students continue to study the geography and culture of Spanish-speaking countries to build on their understanding of the people who use Spanish as their primary language. Classes are taught with a variety of activities, including but not limited to: stories, novels, songs, games, TPRS, Comprehensible Input and small and large group activities. Students are expected to participate in class with a good attitude. Students are expected to communicate in Spanish at their ability level.

**PREREQUISITE:** Students must earn a C or better in both semesters of Spanish 1

## ***Spanish 3*** ***Mrs. Green***

**Two Semesters (One Credit CTE)**

**Grades 11-12**

Spanish 3 students will build on first and second-year coursework and acquire additional vocabulary and grammar with the goal of engaging in authentic communication tasks needed when traveling in Spanish-speaking countries. Classes will be taught primarily in Spanish. Students will continue to work on the four basic principles of learning a language: speaking, reading, writing, and listening. Students continue to study the geography and culture of Spanish-speaking countries to build on their understanding of the people who use Spanish as their primary language. Classes are taught with a variety of activities, including but not limited to: stories, novels, songs, games, TPRS, Comprehensible Input and small and large group activities. Students are expected to participate in class with a good attitude. Students are expected to communicate in Spanish at their ability level.

**PREREQUISITE:** Students must earn a C or better in both semesters of Spanish 2.

## ***Spanish 4*** ***Mrs. Green***

**Two Semesters (One Credit CTE)**

**Grade 12**

Spanish 4 students will build on first and second and third-year coursework and acquire additional vocabulary and grammar with the goal of engaging in authentic communication tasks needed when traveling in Spanish-speaking countries. Classes will be taught primarily in Spanish. Students will continue to work on the four basic principles of learning a language: speaking, reading, writing, and listening. Students continue to study the geography and culture of Spanish-speaking countries to build on their understanding of the people who use Spanish as their primary language. Classes are taught with a



variety of activities, including but not limited to: stories, novels, songs, games, TPRS, Comprehensible Input and small and large group activities. Students are expected to participate in class with a good attitude. Students are expected to communicate in Spanish at their ability level.

**PREREQUISTE:** Students must earn a C or better in both semesters of Spanish 3.



# Mathematics

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## ***Pre-Algebra*** ***Mr. Tonsager/ Mrs. Burns***

**Two Semesters**

**Grades 9-12**

Pre-Algebra is the study of algebraic, linear, and quadratic expressions and equations. This course presents the fundamentals of working with equations in Algebra.

## ***Algebra I*** ***Mrs. Burns***

**Two Semesters**

**Grades 9-12**

Algebra I is the study of algebraic, linear, and quadratic expressions and equations. This course presents the fundamentals of working with equations in Algebra. Algebra I is **PREREQUISITE** to all other upper-level mathematics course by the SDBOR. (South Dakota Board of Regents)

## ***Geometry*** ***Mr. Tonsager***

**Two Semesters**

**Grades 9-12**

Geometry is a study in Euclidean geometry. This course develops the deductive reasoning required in upper-level mathematics and specific geometric concepts, which will be required of students in Algebra II and Pre-Calculus. Geometry is considered an upper-level mathematics course by the SDBOR.

**PREREQUISITE:** Algebra I

## ***Algebra II*** ***Mr. Bouman***

**Two Semesters**

**Grades 10-12**

Algebra II is a continuation of the study of algebraic and transcendental functions. This course reviews linear and quadratic functions and continues to add exponential and logarithmic functions. Algebra II is considered an upper-level mathematics course by the SDBOR. Vocational credit available, Vo-Tech articulation agreement

**PREREQUISITE:** Algebra I and Geometry, or Algebra I with Geometry concurrently, only with a signed intention to take Calculus in Grade 12.

**Pre-Calculus**  
**Mr. Bouman**

**Two Semesters**

**Grades 11-12**

Pre-Calculus is an in-depth study of numerical methods, common functions, and trigonometric functions and vector analysis. Graphical analysis is emphasized. Pre-Calculus is considered an upper-level mathematics course by the SDBOR.

**PREREQUISITE:** Algebra I, Geometry, Algebra II with a C or better.

**College Algebra**  
**Online**

**One Semesters**

**Grade 11-12**

College Algebra is a three-credit hour college level math course. The class will involve the following topics: Equations and inequalities; polynomial functions and graphs, exponents, radicals, binomial theorem, zeros of polynomials; systems of equations; exponential, logarithmic and inverse functions, applications, and graphs. other topics selected from sequences, series and complex numbers.

**PREREQUISITE:** Algebra II, Pre-Calculus (recommended)

# Music

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**Concert Chorus**  
**(auditioned)**  
**Mr. Pennel**

**Two Semesters**

**Grades 9-12**

Select Choir is open to all students in grades 10-12 who have fulfilled the above prerequisites. Students will be introduced to advanced choral singing techniques, expand upon their knowledge of music theory, and increase their ability to read music at first sight. They will perform a varied repertoire of music in four or more parts with and without accompaniment. Students will be required to perform in two evening concerts per semester, Region Large Group Contest, and Solo and Ensemble Contest.

**PREREQUISITE:** Satisfactory completion of Introduction to Singing, Treble Chorus, and/or equivalent choral/singing experience (as determined by instructor).

**Music Appreciation**  
**Mr. Pennel**

**One Semester**

**Grades 9-12**

Music Appreciation highlights reasons people value music: to tell us who we are; to invite us to move; to let us perform; to enhance expression; to understand life's meaning; to allow us to create; to tell the story of our lives; to characterize an age; and to share our music to history, art and the cultures of the world. Students will learn about music of all cultures, and they will learn about the importance of each style and culture in music history. Topics covered include modern music, rock, rap, country, world music, salsa, samba, jazz, musical theater, opera, classical, baroque, renaissance, and chant. Students will listen to many styles and will WRITE about what they hear. They will develop opinions and back up those opinions in discussion. Most importantly, they will describe what they hear and will describe what music means to them.

***Instrumental Music/Band***  
***Mr. Pennel***

**Two Semesters**

**Grades 9-12**

Band is open to all students who play a musical instrument. The band performs at a variety of events to include concerts, contests, athletic events, and homecoming activities. Through rehearsal and lessons, students will improve technical ability, musicality and reading skills. Students will perform a varied repertoire to include cultural, contemporary, traditional, and pop selections. Drum line and flag line are open to members of the band.

***Intro to Guitar***  
***Mr. Pennel***

**One semester**

**Grades 9-12**

This course is aimed at giving you (the student) a basic knowledge and understanding about the guitar, its history, and the basics of playing. This course will also focus on learning to read music and guitar lead sheets. At the end of the semester, you will have become a guitarist and a musician.



# Science

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***General Science***  
***Mr. Haxton***

**Two Semesters**

**Grade 9**

A freshman science course, this course is a general survey course designed to cover three areas in science: Chemistry, Physics & Cosmology. Each area will be offered to students during their upper-class experience in greater length & detail. The areas in Chemistry will cover Matter, States of Matter, Structure Matter, Atoms & the Periodic Table, Nuclear Changes, Chemical Reactions, Solutions. Physics will cover Motion, Forces, Work & Energy, Heat & Temperature, and Waves. Cosmology will cover the theories of the origin of the universe, and organization of matter. **This is a required course, and a student must receive a passing grade.**

***Biology I***  
***Mr. Larsen, Mrs. Musilek***

**Two Semesters**

**Grade 10**

A sophomore course that allows students to explore the science of life and fulfills South Dakota's requirement for three lab-based sciences. Students will learn important concepts of chemistry, genetics, cell biology, anatomy, physiology, ecology, as well as the scientific method and how science enhances their lives. This class is reading and mathematics intensive and will have students learning valuable study skills. Scientific writing is also stressed, and laboratory work is a major part of this course. Students will participate in hands on activities to learn biological concepts and will use the scientific method to design experiments that allow biologists to answer questions about the natural world. **This is a required course, and a student must receive a passing grade.**

***Biology II***  
***Mr. Larsen***

**Two Semesters**

**Grades 11-12**

Biology II is a continuation of the sophomore Biology course and is a junior-senior level course emphasizing the Advanced Life Science Standards set forth by the South Dakota Department of Education. Topics include cellular functions, classification of organisms, photosynthesis and cellular respiration, biofeedback mechanisms, genetic expression, enzyme catalyzed reactions, evolutionary theory, microbiology, and human anatomy and physiology. Professional scientific documentation is also stressed. Laboratory work is a major part of this course.

**PREREQUISITE:** Biology I

***Rising Scholar Biology 101***  
***Mr. Larsen***

**Two Semesters**

**Grade 12**

This course is an Advanced Placement Biology Class that allows students at Belle Fourche High School to enroll in a freshmen level, college course through Black Hills State University. Students pay \$160.00 in tuition and earn three college credits that can transfer to any college or university. Belle Fourche students can take the class at the high school at a reduced tuition rate. The class is geared at getting science majors all the biological content and lab skills they will need to take more advanced college level science classes. However, non-science (students who are majoring in Art, English, History etc.) are encouraged to take this class because every college student is required to take at least one year of science in order to get their degree.

**PREREQUISITE:** must meet one of the following requirements:

- Earn an ACT composite score of 21 reflective of the 50% percentile; or
- Rank in the upper one-half of their graduating class; or
- Earn a cumulative GPA of at least 3.25 on a 4.0 scale.

***Chemistry***  
***Mrs. Musilek***

**Two Semesters**

**Grades 10-12**

This course includes measuring and calculating, matter, formulas, the Mole, chemical reactions, atomic structure, electron clouds and probability, the Periodic Table, elements, chemical bonding, polarity, gases, acids, bases, and salts. Qualitative and quantitative laboratory experiences are incorporated. Math is a necessary element of this course.

**PREREQUISITE:** Algebra 1 and Biology or concurrent registration.

***Advanced Chemistry***  
***Mrs. Musilek***

**Two Semesters**

**Grades 11-12**

This course is an in-depth study of the fundamentals of chemistry and solving chemical problems at the advanced level. Topics covered include Reaction Energy, Reaction Kinetics, Chemical Equilibrium, Oxidation-Reduction Reactions, Electrochemistry, Nuclear Chemistry, Organic Chemistry and Biological Chemistry. Laboratory is a necessary element of this course.

**PREREQUISITE:** Chemistry (with a C or better) and Algebra II (with a C or better) or concurrent registration.

**Geology**  
**Mr. Haxton**

**One Semester**

**Grades 9-12**

This is a course in which students will instigate the earth's processes and history. We will further emphasize the geologic history of the state of South Dakota and the broader region of the mountain west. Students will also understand the economic, social, environmental, and cultural impacts geology has had on the peoples of this region. This is a laboratory-based class with students utilizing the available resources around their community and the region of the black Hills.

**Astronomy**  
**Mr. Haxton**

**One Semester**

**Grades 9-12**

This is a course in which students investigate the history of the solar system and the broader universe. Students will also gain a better understanding of how humanity has perceived and interacted with the cosmos through human history. This is a laboratory class that will require student participation outside of class in observing stars and the night sky.



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# Social Science

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**World Geography**  
**Mr. Kane**

**One Semester**

**Grade 10**

This course covers the major geographical features and regions of the world and looks to incorporate the Five Themes of Geography - **location, place, human-environment interaction, region and movement** - into each region and area of study. The role of geography as a factor in today's current events is studied. Special emphasis is placed on the world's growing interdependence. Students must demonstrate mastery of various maps and graphs.

**Civics**  
**Mr. Kane**

**One Semester**

**Grade 10**

Civics is the study of how the individual can and should be involved in their community, state and country, and the workings of those entities. Civics looks at how the different parts of those perspective parts operate, starting with the Law of the Land, the US Constitution, and working through the branches of government, political parties, voting and elections and then taking it through the layers of government that make up the state and local levels. Finally, Civics looks at the community and where Civics really starts, and that is the grass roots of what makes up our country, how it runs and our part in all of that.

**American History I & II**  
**Mr. Abell**

**Two Semesters**

**Grade 11**

The achievements and progress of the United States since the American Revolution are studied. Special emphasis is placed on the American Revolution, the Civil War and Reconstruction period, growth of the United States as well as on domestic and foreign problems that America faced during this period.

**World History**  
**Mr. Kane**

**One Semester**

**Grade 12**

This course will focus on world events from the beginning of man to modern history, with special emphasis on the growth of the political, economic, and social institutions of Europe and the relationship of past events to current situations. Students will utilize different methods to interpret the past, including points of view and historical context. In World History, students study the history of humankind and how it has progressed and developed

**American Government**  
**Mr. Kane**

**One Semester**

**Grade 12**

In this course, the student becomes acquainted with the detailed procedure of the governing process of our federal government. Major emphasis will be placed on the study of the Constitution.

**College Psychology**  
**Mrs. Grosz**

**One Semester (Cost \$146.97)**

**Grades 11-12**

This course will explore the aspects of the mind and development of the body from a psychological point of view. Discussion and book lecture are the basis of this class. Human development ranging from infancy to geriatrics, psychological disorders, personality, adjustment, and conflict will be the main areas of study.

**College Sociology**  
**Mrs. Grosz**

**One Semester (Cost \$146.97)**

**Grades 11-12**

Development and application of Sociological concepts and perspectives concerning human groups. This includes attention to socialization, culture, organization, stratification and societies. Fundamental concepts and research methods will also be explored.

 **Career & Technical Education**

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**Architecture & Construction**

**Introduction to Drafting & Design**  
**Mr. Anderson**

**One Semester**

**Grades 9-12**

This course gives the students an introduction into basic technical drafting and is designed to see if the student has an interest in furthering his/her drafting abilities. Emphasis will be placed on measuring, sketching, orthographic drawings, dimensioning, and isometric drawings. **This course is a prerequisite for Advanced Welding, Mechanical Drafting, Architectural Drafting, all Solid Works courses, Wood Manufacturing and is strongly recommended for all Career & Technical Education classes.**

## ***Intro to Architecture & Construction***

***Mr. Anderson***

**One Semester**

**Grades 9-12**

This course will prepare students to delve into the architecture and construction industry. It covers all three construction career pathways offered, including architecture/drafting along with cabinetry and building construction. Students will explore many different topics where they will be able to complete hands on activities to enhance the learning process. Course work is one semester in length and is a prerequisite for Residential Construction and Wood Manufacturing.

## ***Residential Construction***

***Mr. Anderson***

**Two Semesters (2 Hour Block)**

**Grades 11-12**

This course gives students the opportunity to gain some basic knowledge and skills in residential construction area. Course work involves both actual work and lecture in the following areas: hand and power tools, site preparation, footings and foundations, floor construction, wall and ceiling framing, roof framing, exterior and interior finish, and estimating.

**Successful completion of the course will result in two (2) elective credits**

## ***Wood Manufacturing***

***Mr. Anderson***

**One Semester**

**Grades 10-12**

This course gives students the opportunity to further their woodworking knowledge while integrating manufacturing principles and Computer Aided Drafting & Manufacturing technology. A heavy emphasis will be placed on the safe operation of power and hand tools, along with planning, design, and the business application of wood manufacturing. The student will construct a project of the instructor's choice and will be required to construct a *small* project of their own using the CNC and Laser tools. Students will spend time in the classroom environment preparing CAD & CAM files for use with the CNC router and other CAM equipment. Students will also spend time in the lab constructing & manufacturing each project. **THIS WILL BE OFFERED AS NEEDED AND IS A ONE-SEMESTER CLASS!**

**PREREQUISITE:** Basic Drafting or Intro to Drafting & Design

## ***Construction Equipment***

***Mr. Anderson***

**One Semester**

**Grades 9-12**

Students will gain an understanding of safely operating the tools and equipment in the construction trades. Exploration of earth-moving and construction equipment within the context of OSHA and industrial operations standards. Emphasis should be placed on controlling equipment to perform specific operations per industry standards and on basic troubleshooting and maintenance procedures.

## ***Construction Equipment II***

***Mr. Anderson***

**One Semester**

**Grades 9-12**

Students will gain an advanced understanding of safely operating the tools and equipment in the construction trades. Operation of earth-moving and construction equipment within the context of OSHA and industrial operations standards. Emphasis should be placed on controlling equipment to perform specific operations per industry standards and on basic troubleshooting and maintenance procedures. The student may have the opportunity to take the National Construction Career Education Center (NCCER) certification exam.

# Manufacturing Cluster

## ***Mechanical Drafting*** ***Mr. Anderson***

**Two Semesters**

**Grades 10-12**

This course allows students to further their technical drafting skills by drawing mechanical objects using AutoCAD and Solid Works. This course establishes the fundamental technical drafting skills needed in the design and engineering career fields such as advanced orthographic drawings, dimensioning, sectional & auxiliary views, isometric & pictorial views, and 3D modeling. This course introduces students to Solid Works and the world of 3D printing. This course is recommended for students who are going into engineering, design, or for those who just enjoy drafting. **OFFERED ON ODD YEARS ONLY!**

**PREREQUISITE:** Basic Drafting or Intro to Drafting & Design

## ***Architectural Drafting*** ***Mr. Anderson***

**Two Semesters**

**Grades 10-12**

~~This course consists of drawing architectural plans and details. The student will learn how to technically draft architectural plans as well as how to efficiently and effectively design a residential home. Emphasis will be placed on construction knowledge and design. This course is strongly recommended for any student going into the carpentry field, architecture, interior design, or for those who just enjoy drafting. **OFFERED ON EVEN YEARS ONLY! PREREQUISITE:** Basic Drafting or Intro to Architecture & Construction.~~

## ***SolidWorks II*** ***Mr. Anderson***

**One Semester**

**Grades 11-12**

This course is an intermediate course with the prerequisite of Mechanical Drafting. Topics include Part Modeling, Sweep, Loft and Wrap, Assembly Modeling, Animation and Rendering and Analysis. The focus on this course is to prepare the student for the CSWA Exam. This course is an instructor led self-paced independent study course.

**PREREQUISITE:** Mechanical Drafting

## ***Welding I*** ***(A & B)*** ***Mr. Hartwell***

**Two Semesters**

**Grades 9-12**

Introduction into what is welding, welding and shop safety. Students will learn Oxy-Fuel Welding and Cutting, Plasma Cutting and start learning about Shield Metal Arc Welding (stick welding). Basic Welding theory, terms and setup of equipment. Class is very hands on in the shop with some classroom work.

## ***Welding II*** ***Mr. Hartwell***

**One Semester**

**Grades 10-12**

**Picks** up where Welding I left off, with learning weld placement in different weld joints and positions. Shield Metal Arc Welding (stick welding) & Gas Metal Arc Welding (wire feed welding) theory, terms and equipment setup are covered. Students will work on projects and spend a majority of class welding with some class work.

**PREREQUISITE:** Welding I



**Advanced Welding**  
**Mr. Hartwell**

**Two Semesters**

**Grades 11-12**

Is a two-semester course that adds knowledge and experience to Welding 2. Students work on several projects during the year, while learning about more advanced welding processes like Gas Tungsten Arc Welding, Aluminum Spool Gun Welding and CNC Plasma Cutting. Blueprint reading, welding symbols and some **math are covered**

**PREREQUISITE:** Basic Drafting or Intro to Drafting & Design, Welding I and II

**Plasma Cam**  
**Mr. Hartwell**

**One Semester**

**Grades 9-12**

This course focuses on the CNC Plasma Cutting machine in the shop. Students will learn safety, programming, operating and maintenance of the machine. The class covers cutting basic shapes, words and images for sign and parts. No welding experience needed to take class but is a plus.

**Intro to Engineering Design**  
**Mr. Haxton**

**One Semester**

**Grades 9-12**

This is a course where students investigate the engineering process and its many related sub fields. Students learn the basics of orthographic and isometric sketching as well as the six step engineering process. Within the curriculum of the course, students learn the following concepts: The Role of the Engineer, The Design Process, Technical Sketching and Drawing, Measurements and Statistics, Geometric Shapes and Solids, Dimensions and Tolerances, Basic3D Modeling Skills, Reverse Engineering, Structural Analysis and Product Improvement.

Students work within groups and in individual projects to design, test and manufacture prototypes to solve engineering problems. This is an introductory course for those interested in engineering fields and thus will involve a certain level of math. Students are recommended to have had algebra. It should also be stated that some basic concepts of trigonometry and geometry will be discussed within the context of the course.

**PREREQUISITE:** Basic Drafting or Intro to Drafting & Design

**Engineering Design 2**  
**Mr. Haxton**

**One Semester**

**Grades 10-12**

Hands on project-based class in which students can utilize the engineering process to solve problems. This is a continuation of the first course Introduction to Engineering Design. In this course students will in the second half have to put forth a proposal and a budget to do a project of their own design, which they will then prototype, test, and evaluate for the efficiency of their design.

**PREREQUISITE:** IED#1

# Family and Consumer Science Cluster

## ***Child Development 1***

***Mrs. Niesent***

**One Semester**

**Grades 9-12**

**(Prenatal through toddler)** Students will analyze principles of human growth and development in infants and toddlers. Topics covered include human development, theories, influences on growth and development, prenatal development, pregnancy, and childbirth as well as physical, intellectual, emotional and social development of infants and toddlers. Child Development 1 is a great class for anyone planning to be a parent and/or interested in being a teacher, day care provider, nurse, or doctor. It also is a good foundation for students interested in psychology, sociology and human development.

## ***Child Development 2***

***Mrs. Niesent***

**One Semester**

**Grades 9-12**

**(Preschool to Independent Living)** Child Development 2 will build a positive understanding of children's growth and development and a solid foundation of parenting skills. Students learn theories of development and growth as well as techniques to use when working with children in a variety of different career paths. As it progresses through the semester, students will learn how children develop through the middle school years. Stress management, effective habits and healthy relationships are just some of the components explored during the Adolescent unit. The class ends with Adulting 101 and preparing students for life after high school. Child Development 2 is a great class for anyone planning to work with children or families. It is also a good foundation for students interested in psychology, sociology, and human development.

**PREREQUISITE:** Nutrition & Wellness to the bottom of the Culinary Arts class.

## ***NUTRITION AND WELLNESS***

***Mrs. Niesent***

**One Semester**

**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.

## ***Introduction to Hospitality & Tourism***

***Mrs. Niesent***

**One Semester**

**Grade 9-11**

This class is designed to give high school students an overview of the opportunities, occupations and skills needed in this career cluster. The goals for this course are based on the National Family & Consumer Science standards and business & industry information. Topics covered are Career Paths within the hospitality, tourism and recreation industries; Procedures related to safety, security and environmental issues; Concepts of customer service; Rights and responsibilities in hospitality and tourism; Practices & skills involved in hospitality, tourism and recreation industries.

**Culinary Arts**  
**Mrs. Niesent**

**One Semester**

**Grades 10-12**

The Restaurant Management & Culinary Arts program prepares students who are planning to enter the job market or preparing for post-secondary education. Topics of study include career paths within the food service industry, successful customer relations, preparation and serving safe food, preventing accidents and injuries, basic culinary skills and use of food service equipment, mathematical skills essential for job performance in the food service industry and food selection and storage techniques.

## Agriculture, Foods, and Natural Resources Cluster

**Introduction to AFNR (Agriculture, Food, &  
Natural Resources)**  
**Mr. Bishop**

**Two Semesters**

**Grade 9**

This course allows students to study a variety of agricultural topics throughout the six Agriculture, Food, and Natural Resources pathways. It serves as an introduction to much of the coursework included within the AFNR cluster. Application of clinical and leadership skills are provided by participating in FFA activities, conferences, and skills competitions such as the Career Development Events and proficiency awards. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Algebra, biology, English and human relations skills will be reinforced in the course. Each student will be expected to maintain a Supervised Agricultural Experience (SAE).

**Wildlife and Fisheries**  
**Mr. Bishop**

**Two Semesters**

**Grades 11-12**

Management of South Dakota's wildlife and fisheries is critical to our future economic stability. Skills gained in this area will be beneficial to students seeking careers in the many facets of wildlife and fisheries. The Wildlife and Fisheries course addresses the biological and environmental issues related to wildlife and fisheries management within our state. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Biology, English, and human relations skills will be reinforced throughout 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 competitions such as the Natural Resources Career Development Event or related proficiency award areas. All students are expected to maintain a Supervised Agricultural Experience program.

**PREREQUISITE:** Introduction to AFNR, Animal Science OR Biology

**Fundamental Ag Mechanical Technologies**  
**Mr. Bishop**

**One Semester (Fall)**

**Grades 10-12**

Fundamental Ag Mechanical Technologies is offered to help students build basic knowledge and skills in agricultural mechanics, along with soft skills necessary for careers in the Agriculture, Food and Natural Resources sector. Topics covered in this course include electricity, engines (including small engines) and ag technology. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Algebra, geometry, English, and human relation 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 Supervised Agricultural Experience (SAE) programs, the Ag Mechanics

Career Development Event, and related Proficiency Experience or Internship Project. Each student will be expected to maintain a SAE.

**PREREQUISITE:** Introduction to AFNR

## ***Ag Systems Technologies***

***Mr. Bishop***

**One Semester (Spring)**

**Grades 10-12**

Technically trained employees are needed in many aspects of the agriculture power industry. This course addresses the technical and industrial skills and techniques related to Power, Structural, & Technical Systems within South Dakota, as well as address soft skills needed for careers in this area. Technology in agriculture is ever-changing and this course will address emerging technologies in our industry. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Mathematics, science, English, and human relations skills will be reinforced throughout 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, conference, and skills competition such as the Ag Mechanics Career Development Event or related proficiency award areas. Each student will be expected to maintain a Supervised Agricultural Experience (SAE) program.

**PREREQUISITE:** Intro to AFNR, Fundamental Ag Mechanics

## ***Fundamental Animal Science***

***Mr. Bishop***

**One Semester (FALL)**

**Grades 10-12**

Fundamental Animal Science will address the basic knowledge and skills necessary to care for and meet the needs of animals, along with soft skills necessary for careers in the Agriculture, Food and Natural Resources sector. Topics addressed in the course include animal anatomy and physiology, animal health, safely working with animals, animal nutrition, reproductive systems, animal performance, animal industry issues, and employability. Utilizing appropriate equipment and technology should enhance classroom and laboratory content. 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 Supervised Agricultural Experience (SAE) activities such as the Livestock Evaluation Career Development Event and related Proficiency Awards. Each student will be expected to maintain a SAE.

**PREREQUISITE:** Intro to AFNR, Biology

## ***Advanced Animal Science***

***Mr. Bishop***

**One Semester (SPRING)**

**Grades 10-12**

Advanced Animal Science will address the advanced knowledge and skills necessary to care for and meet the needs of animals, along with soft skills necessary for careers in the Agriculture, Food and Natural Resources sector. Topics covered include animal health care practices, nutrition management, reproductive practices, medical terminology, animal classification, surgical techniques, and employability skills. Advanced Animal Science has an increased focus on the veterinary portion of animal husbandry. Utilizing appropriate equipment and technology should enhance classroom and laboratory content. 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 Supervised Agricultural Experience (SAE) activities such as the Livestock Evaluation Career Development Event and related Proficiency Awards. Each student will be expected to maintain a SAE.

**PREREQUISITE:** Fundamental Animal Science

**Ag Business Sales and Marketing**  
**Mr. Bishop**

**One Semester (FALL)**

**Grades 10-12**

Agriculture businesses sell and market their products globally, regionally, and locally, leading to many related positions at these businesses. Skills related to selling and marketing products greatly enhance the success of an employee in an agribusiness operation. Agribusiness Sales and Marketing is designed to provide students with skills that focus on job preparatory skills as well as employee tasks necessary in agricultural sales and marketing occupations and the many career opportunities in the Agribusiness Systems Career Pathway. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Mathematics, 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. Developing a business plan for an AFNR business as an authentic assessment for the end of the course is recommended. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conferences, and skills competition such as sales related career development events and proficiency awards. Each student will be expected to maintain a Supervised Agricultural Experience Program/Internship.

**PREREQUISITE:** Introduction to AFNR

**Ag leadership & Communications**  
**Mr. Bishop**

**One Semester (SPRING)**

**grades 10-12**

The world population is expected to increase to 9 billion by 2050. The agricultural industry will need strong leadership to guide us to provide food, fiber and fuel for this growing population. Agricultural education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. Agriculture Leadership and Communications will provide students with fundamental skills for success in agricultural careers and team environments. Students will investigate a variety of topics essential to communicating about the industry of agriculture. In addition to improving personal traits and career readiness, areas of study include interviewing, writing with or without using opinion, researching techniques, equipment and technology, and presentation of news and agricultural markets.

**PREREQUISITE:** Introduction to AFNR

 **Wellness**

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**Freshman P.E/Health**  
**Mr. Slotten**

**Two Semesters**

**Grade 9**

Wellness consists of health classroom and physical education classes that are taught on alternate days. This course is required for all freshmen and emphasizes overall wellness of students. These courses are designed for the student to become "physically educated." This is accomplished by learning about and experiencing various individual, team and lifetime activities. The student will be able to construct a physical fitness program based on their individual needs and interests to enable them to function effectively in daily activities and enhance their quality of life. **Ninth grade Wellness** involves the study

of information presented in the student's health textbook, with emphasis on prevention of heart disease, cancer, alcohol and drug abuse, and sexually transmitted diseases.

***Weightlifting/Conditioning***  
***Mr. Slotten***

**One or Two Semesters**

**Grades 10-12**

This class is a comprehensive evaluation of current abilities with a plan of improvement using freeweights, exercise machines, agility training and other aerobic and cardiovascular activities.

**PREREQUISITE:** Freshman PE/Health

***Fitness Class***  
***Mr. Abell***

**One or Two Semesters**

**Grades 10-12**

This class focuses on four pillars of fitness: strength training, cardio, flexibility and nutrition. Participation and a certain level of maturity are required as we work out as a group every day. Throughout the course of the class, you will learn the technique required for most of the Olympic lifts, pool workouts, bodyweight exercises as well as many basic poses of yoga. This class is intense.

***Lifetime Fitness and Leadership***  
***Mr. Slotten***

**One or Two Semesters**

**Grades 10-12**

This course is half-upper-level PE and Fitness. Monday, Wednesday, Friday students will participate in lifetime fitness and activities that will improve physical fitness. The other half of this course will be on Leadership. The students will study the art of a true leader and different characteristics of leadership. They will also learn how the different leaders around the world, in sports, business, and community have performed and how they accomplish goals that they set out for themselves and others. This part of the course will involve some book readings, guest speakers from the community and some projects on different leaders.

**PREREQUISITE:** Must pass 9<sup>th</sup> PE/Health and be willing to participate in lifestyle activities on a day to day basis.

***Emergency Medical Technician***  
***Western Dakota Tech***

**Two Semesters**

**Grades 11-12**

This course consists of all aspects of emergency medical care at the Emergency Medical Technician level in accordance with the National Registry and the Department of Transportation guidelines.