

**Winner High School  
Curriculum Guide 2022-23**

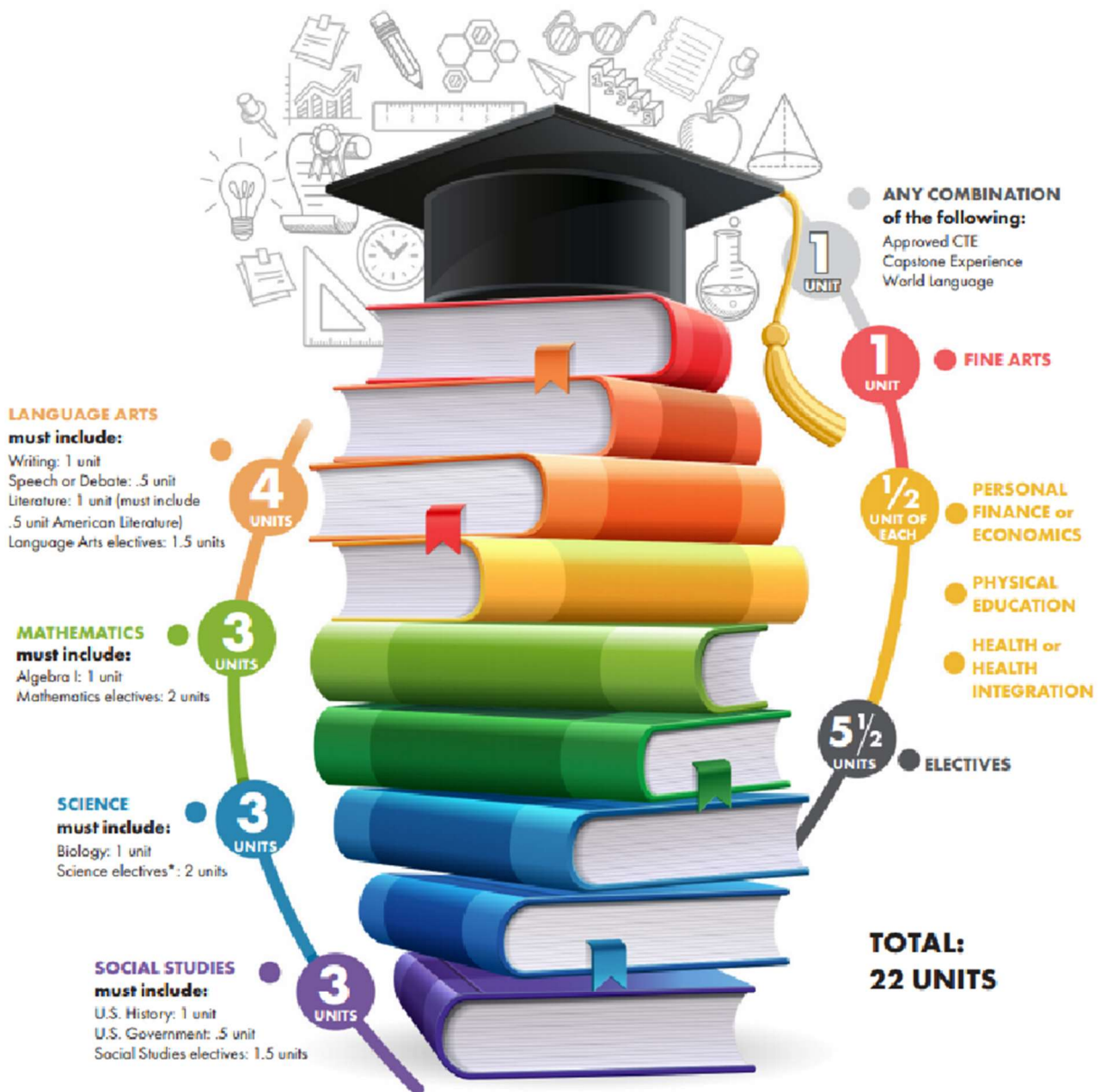


Updated: April 2022

# Winner High School Curriculum Guide 2022-2023

## South Dakota High School Graduation Requirements

Approved by the South Dakota Board of Education Standards in July 2018



\* A state-approved advanced computer science course may be substituted for one unit of a science elective, but may not replace Biology. A list of approved courses is available at <http://doe.sd.gov/gradrequirements>.

Students are required to meet the above High School Diploma requirements, also known as the 'base diploma'. Students may earn advanced endorsements with their high school diploma. A student's personal learning plan must document a minimum of 22 credits that include the above requirements.

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# ADVANCED ENDORSEMENTS

In addition to the base requirements for the High School Diploma, students may earn advanced endorsements that are in alignment with the student's personal learning plan. Advanced endorsements outline specific coursework within the base diploma requirements to denote specific emphases. Students may earn one or more of three advanced endorsements: Advanced Endorsement, Advanced Career Endorsement and Advanced Honors Endorsement.

The requirements beyond the base high school diploma requirements are in red text in each advanced endorsement section below.

ADVANCED ENDORSEMENT REQUIREMENTS <i>Indicates a student has pursued coursework consistent with entrance requirements for postsecondary education at a university.</i>		ADVANCED CAREER ENDORSEMENT REQUIREMENTS <i>Indicates a student has career experience in a concentrated area, based on academic and/or workplace experience and a related credential.</i>	
<b>4 UNITS OF LANGUAGE ARTS</b> must include: • Writing: 1 unit • Speech or Debate: .5 unit • Literature: 1 unit (must include .5 unit American Literature) • Language Arts electives: 1.5 units	<b>1 UNIT OF FINE ARTS</b>	<b>4 UNITS OF LANGUAGE ARTS</b> must include: • Writing: 1 unit • Speech or Debate: .5 unit • Literature: 1 unit (must include .5 unit American Literature) • Language Arts electives: 1.5 units	<b>1 UNIT OF FINE ARTS</b>
<b>3 UNITS OF MATHEMATICS</b> must include: • Algebra I: 1 unit • Geometry: 1 unit • Algebra II: 1 unit	<b>½ UNIT OF PERSONAL FINANCE or ECONOMICS</b>	<b>3 UNITS OF MATHEMATICS</b> must include: • Algebra I: 1 unit • Mathematics electives: 2 units	<b>½ UNIT OF PERSONAL FINANCE or ECONOMICS</b>
<b>3 UNITS OF SCIENCE</b> must include: • Biology: 1 unit • Other Lab Sciences: 2 units	<b>½ UNIT OF PHYSICAL EDUCATION</b>	<b>3 UNITS OF SCIENCE</b> must include: • Biology: 1 unit • Science electives: 2 units (a state-approved computer science course may be used as 1 unit elective)	<b>½ UNIT OF PHYSICAL EDUCATION</b>
<b>3 UNITS OF SOCIAL STUDIES</b> must include: • U.S. History: 1 unit • U.S. Government: .5 unit • Social Studies electives: 1.5 units	<b>½ UNIT OF HEALTH or HEALTH INTEGRATION</b>	<b>3 UNITS OF SOCIAL STUDIES</b> must include: • U.S. History: 1 unit • U.S. Government: .5 unit • Social Studies electives: 1.5 units	<b>½ UNIT OF HEALTH or HEALTH INTEGRATION</b>
<b>1 UNIT OF ANY COMBINATION</b> of the following: • Approved Career & Technical Education • Capstone Experience • World Language	<b>5 ½ UNITS OF ELECTIVES</b>	<b>2+ UNITS OF ANY COMBINATION</b> of the following: • Approved Career & Technical Education units from the same career cluster OR • Capstone Experience <b>AND</b> Attainment of an industry-recognized credential or National Career Readiness Certificate of Silver or higher	<b>4 ½ UNITS OF ELECTIVES</b>

ADVANCED HONORS ENDORSEMENT REQUIREMENTS <i>Indicates a student has pursued advanced rigorous, academic coursework consistent with §13-55-3.1 (High school course requirements for opportunity scholarship eligibility).</i>			
All high school coursework completed with a "C" or higher			
<b>4 UNITS OF LANGUAGE ARTS</b> must include: • Writing: 1.5 units • Speech or Debate: .5 unit • Literature: 1.5 unit (must include .5 unit American Literature) • Language Arts electives: .5 unit	<b>1 UNIT OF FINE ARTS</b>	<b>3 UNITS OF SOCIAL STUDIES</b> must include: • U.S. History: 1 unit • U.S. Government: .5 unit • World History: .5 unit • Geography: .5 unit • Social Studies electives: .5 unit	<b>½ UNIT OF HEALTH or HEALTH INTEGRATION</b>
<b>4 UNITS OF MATHEMATICS</b> must include: • Algebra I: 1 unit • Geometry: 1 unit • Algebra II: 1 unit • Advanced Mathematics: 1 unit (details at <a href="https://sdos.sdbor.edu/require/require.html">sdos.sdbor.edu/require/require.html</a> )	<b>½ UNIT OF PERSONAL FINANCE or ECONOMICS</b>	<b>2 UNITS OF ANY COMBINATION</b> of the following: • Approved Career & Technical Education OR • Modern or Classical Language (including American Sign Language); must be in the same language	<b>2 ½ UNITS OF ELECTIVES</b>
<b>4 UNITS OF SCIENCE</b> must include: • Biology: 1 unit • Any Physical Science: 1 unit • Chemistry or Physics: 1 unit • Science elective: 1 unit	<b>½ UNIT OF PHYSICAL EDUCATION</b>		

## South Dakota Opportunity Scholarship Requirements

The Division of Education and the Board of Regents annually recognize seniors committed to academic excellence. Students may establish their initial eligibility in the Opportunity Scholarship program by meeting the requirements in one of two ways. The student must be a resident of South Dakota at the time of graduation and attend an approved post-secondary institution in South Dakota within 5 years of high school graduation.

Complete the curriculum requirements below with no final grade below a “C” and have an ACT composite score of 24 or higher.

- **4 units of English** (courses with major emphasis upon grammar, composition, or literary analysis may be included to meet this requirement).
- **3 units of Social Studies** (such as history, economics, sociology, geography, U.S. government, and similar courses).
- **4 units of Algebra or Higher Mathematics** (algebra, geometry, trigonometry, or other advanced mathematics, as well as accelerated or honors mathematics [algebra] at the 8th grade, shall be accepted). NOT INCLUDED are arithmetic, business, consumer, or general mathematics or similar courses.
- **4 units of Science, including 3 units of approved laboratory science** (courses in biology, chemistry, or physics in which at least one regular laboratory is scheduled each week).
- **1 unit of Fine Arts** (in art, theatre, or music, as well as approved extracurricular activity).
- **2 units of either of the following or a combination of the two:**
  - **Approved Career and Technical Education Courses**
  - **Modern or Classical Language** (Includes American Sign Language; all units must be in the same language)
- **1/2 unit of Personal Finance or Economics**
- **1/2 unit of Physical Education**
- **1/2 unit of Health or Health Integration** (Students entering HS after July 2013)

**Or**

Have an ACT composite score of 28 or higher and meet the ACT college readiness benchmarks scores equaling or exceeding 18 for English, 22 for Reading, 22 for Math, and 23 for Science. If using an SAT score the sum of the verbal and mathematics scores on the SAT must be at least 1260 (testing before January 2016) or 1320 (testing after March 2016).

# **SOUTH DAKOTA BOARD OF REGENTS' UNIVERSITY BASIC ADMISSION REQUIREMENTS**

(For High School Graduates Entering a Baccalaureate Degree Program)

**Achieve a Level 3 or higher** ELA and Math Smarter Balanced assessment

**OR** Meet minimum course requirements below with GPA of 2.0 on 4.0 scale

**OR** Be ranked in top 60% of graduating class

**OR** Achieve ACT Composite Score of 18 or above

**OR** Earn high school GPA of 2.6 on 4.0 scale

## **Minimum Course Requirements**

### **4 years of English**

**OR** ACT English sub-test score of 18 or above

**OR** AP English score of 3 or above

### **3 years of Advanced Mathematics**

**OR** ACT Math sub-test score of 20 or above

**OR** AP Calculus score of 3 or above

### **3 years of Laboratory Science**

**OR** ACT Science Reasoning sub-test score of 17 or above

**OR** AP Science score of 3 or above

### **3 years of Social Studies**

**OR** ACT Reading sub-test score of 17 or above

**OR** AP Social Studies score of 3 or above

### **1 year of Fine Arts**

**OR** AP Art score of 3 or above

Other South Dakota Board of Regents admissions requirements can be found at: <https://www.sdbor.edu/policy/Documents/2-3.pdf>

## President's Education Awards Program

The purpose of this award is to recognize and reward educational excellence. Selection criteria for the Presidential Award for educational excellence are as follows:

**Grade Point Average** - Students are to earn an A- (3.5 on a 4.0 scale) grade point average. When computing grade point average at the respective award level (high school), only the years at that level are to be included through the fall semester of the exiting grade.

**Nationally-Normed Achievement Test (ACT)** – In addition to the above, students must achieve a composite score of at least 21 on the ACT exam.

This award is given to qualifying students at graduation exercises.

### Regent's Scholars Award

South Dakota high school graduates completing the following high school courses with no final grade below a "C" (2.0 on a 4.0 scale) and an average grade of "B" (3.0 on a 4.0 scale) shall be designated as Regents Scholars and shall be eligible to receive a Regents Scholar Diploma upon request by a high school administrator to the Department of Education and Cultural Affairs. High school graduates designated as Regents Scholars automatically are admitted to all six public universities.

**Four (4) Units of English:** Courses with major emphasis upon grammar, composition, or literary analysis; one year of debate instruction may be included to meet this requirement.

**Four (4) Units of Algebra or Higher Mathematics:** Algebra, geometry, trigonometry or other advanced mathematics including accelerated or honors mathematics (algebra) provided at the 8th grade level; not included are arithmetic, business, consumer or general mathematics or other similar courses.

**Four (4) Units of Science Including 3 Units of Approved Laboratory Science:** Courses in biology, chemistry, or physics in which at least one (1) regular laboratory period is scheduled each week. Accelerated or honors science (biology, physics or chemistry) provided in the 8th grade shall be accepted. Qualifying physical science or earth science courses (with lab) shall be decided on a case-by-case basis.

**Three (3) Units of Social Studies:** History, economics, sociology, geography, government--including U.S. and South Dakota, American Problems, etc.

**Two (2) Units of a Modern (including American Sign Language) or Classical Language OR Two (2) Units of Career and Technical Education (CTE) OR a combination of One (1) Unit of Modern or Classical Language and One (1) Unit of Career and Technical Education:** If taking two language courses, the two units must be in the same language.

**One (1) Unit of Fine Arts\*:** Art, theatre or music--appreciation, analysis, or performance.

## AGRICULTURAL & TECHNICAL EDUCATION

2 credits from the same CTE cluster may be used to meet the requirements of advanced career endorsement or advanced honors endorsement. (See guidance counselor for more information)

Course Title	Availability				(S)EM	Credit	PR	Fills Elective Req.	Page No
	9	10	11	12	(Y)EAR				
<b>AGRICULTURE</b>									
CASE Animal Science		X	X	X	Y	1		X	11
Plant Science		X	X	X	S	½		X	11
Horticulture		X	X	X	S	½		X	11
Intro to Agriculture, Food and Natural Resources	X	X	X	X	Y	1		X	11
Ag Business Management and Marketing		X	X	X	S	½		X	12
Ag Communications and Leadership		X	X	X	S	½		X	12
Natural Resources		X	X	X	S	½		X	12
Agriculture Biotechnology		X	X	X	S	½		X	12
Wildlife & Fisheries		X	X	X	S	½		X	12
Environmental Science & Ecology		X	X	X	S	½		X	13
Veterinary Science		X	X	X	S	½		X	13
<b>TECHNOLOGY EDUCATION</b>									
Intro to Technology	X	X	X	X	S	½		X	13
Photographic Arts	X	X	X	X	S	½		X	13
Cabinet Making	X	X	X	X	S	½		X	13
Basic Electricity/Home Maintenance	X	X	X	X	S	½		X	14
Small Engines/Repair	X	X	X	X	S	½		X	14
Intro to Building Construction	X	X	X	X	S	½		X	14
Adv Building Construction	X	X	X	X	S	½		X	14
Intro to Welding & Fabrication	X	X	X	X	S	½		X	15
Adv Welding & Fabrication	X	X	X	X	S	½		X	15

## COMPUTER TECHNOLOGY

½ credit is required in this area for WHS students to graduate.

Courses followed by an \* are required for graduation.

Course Title	Availability				(S)EM	Credit	PR	Fills Comp. Req.	Page No.
	9	10	11	12	(Y)EAR				
Computer Studies*	X				S	½		X	16

## FAMILY AND CONSUMER SCIENCE

½ credit is required in this area for WHS students to graduate.

Courses followed by an \* are required for graduation.

Course Title	Availability				(S) EM	Credit	PR	Fills Elective Req.	Page No
	9	10	11	12	(Y) EAR				
Employability*	X				S	½		X	17
Parenting	X	X	X	X	S	½		X	17
Foundations of CTE- FACS	X	X	X	X	S	½		X	17
Nutrition & Wellness	X	X	X	X	S	½		X	17
Design: Housing, Textile & Apparel	X	X	X	X	S	½		X	18
Advanced Interior Design	X	X	X	X	S	½		X	18

## FINE ARTS

1 credit is required in this area for WHS students to graduate.

Students may earn 1 credit per year for each band and chorus.

Course Title	Availability				(S) EM	Credit	PR	Fills Fine Art Req.	Page No.
	9	10	11	12	(Y)EAR				
Art 1	X	X	X	X	S	½		X	19
Art 2	X	X	X	X	S	½		X	19
Art 3			X	X	S	½		X	19
Concert Choir	X	X	X	X	Y	1		X	19
Band	X	X	X	X	Y	1	X	X	19

## FOREIGN LANGUAGE

Courses followed by an \*\* are may be used to meet the requirements of advanced honors endorsement.

Course Title	Availability				(Y)EAR	Credit	PR	Fills Elec. Req.	Page No.
	9	10	11	12					
Spanish I**	X	X	X	X	Y	1		X	20
Spanish II**		X	X	X	Y	1	X	X	20

## HEALTH/PHYSICAL EDUCATION

1 credit is required in this area for WHS students to graduate.

Courses followed by an \* are required for graduation.

Course Title	Availability				(S)EM	Credit	PR	Fills Health Req.	Fills PE Req.	Fills Elect. Req.	Page No.
	9	10	11	12	(Y)EAR						
Health*	X				S	½		X			21
P.E.*	X				S	½		X			21
Fitness for Life		X	X	X	S	½				X	21



## LANGUAGE ARTS

4 credits of Language Arts are required for WHS students to graduate.

Courses followed by an \* are required for graduation.

Course Title	Availability				(S)EM	Credit	PR	Fills Language Arts Req.	Page No.
	9	10	11	12	(Y)EAR				
English 9*	X				Y	1		X	22
English 10/Speech*		X			Y	1	X	X	22
English 11*			X		Y	1	X	X	22
English 12*				X	Y	1	X	X	22

## MATHEMATICS

3 credits of Mathematics including Algebra 1 are required for WHS students to graduate.

Courses followed by an \* are required for graduation.

Courses followed by an \*\* are required for advanced endorsement.

1 additional advanced Mathematics credit (4) is required for advanced honors endorsement.

Course Title	Availability				(S)EM	Credit	PR	Fills Math Req.	Page No.
	9	10	11	12	(Y)EAR				
Pre-Algebra	X				Y	1		X	23
Algebra 1*	X	X			Y	1		X	23
Algebra 2**		X	X	X	Y	1	X	X	23
Accelerated Algebra 2				X	Y	1	X	X	23
Geometry**	X	X	X		Y	1	X	X	24
Pre-Calculus			X	X	S	½	X	X	24
Consumer Math			X	X	Y	1	X	X	24
Occupationally Applied Math			X	X	Y	1	X	X	24

## SCIENCE

Minimum of 3 credits are required in this area for WHS students to graduate.

Courses followed by an \* are required for graduation or advanced endorsement.

A total of 4 credits including courses followed by an \* or \*\* required for advanced honors endorsement.

Course Title	Availability				(S)EM	Credit	PR	Fills Science Req.	Page No.
	9	10	11	12	(Y)EAR				
Physical Science*	X				Y	1		X	25
Biology 1*		X	X		Y	1		X	25
Biology 2			X	X	Y	1	X	X	25
Anatomy & Physiology			X	X	Y	1	X	X	25
Chemistry 1**		X	X		Y	1	X	X	26
Chemistry 2			X	X	Y	1	X	X	26

## SOCIAL SCIENCE

Minimum of 3 credits are required in this area for WHS students to graduate.

Courses followed by an \* are required for graduation.

Courses followed by an \*\* are required for advanced endorsement.

Course Title	Availability				(S)EM	Credit	PR	Fills Geo. Req.	Fills Hist. Req.	Fills Govt. Req.	Page No.
	9	10	11	12	(Y)EAR						
Current Events	X	X	X	X	S	½					27
American History*			X		Y	1			X		27
World History**		X			S	½					27
American Govt.*				X	Y	1				X	27
Geography**		X			S	½		X			27
Personal Finance*			X	X	S	½					28
Sociology			X	X	S	½					28
Psychology			X	X	S	½					28
Lakota Studies	X	X	X	X	S	½					28

## **AGRICULTURAL & TECHNICAL EDUCATION**

### **CASE ANIMAL SCIENCE**

Course #	18106
Credit	1
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture, Food and Natural Resources

Are you interested in the animal industry? Nutrition, animal care, ethical treatment of animals, genetics, and selection techniques are themes in the class. Students will study the animal body systems, selection, care and management of sheep, beef, swine, poultry, horses, dairy and meats and dairy products. If you raise animals or are looking into an animal related occupation, this class will provide you with basic knowledge. With an added scientific focus, this course can be taken as an Ag credit OR as a Science Elective credit. Please note that you can take this course for science credit and still be an FFA member.

### **PLANT SCIENCE**

Course #	18051
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture, Food and Natural Resources

Farming is a risky business. Crop production has many aspects of risk and being able to manage that risk is vital to the success of any operation. This course provides an in-depth study of the science behind growing the various crops as well as the economics of managing a farm. In one semester, you will gain a fundamental understanding from seed to marketing of the crop.

### **HORTICULTURE**

Course#	18053
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture, Food and Natural Resources

If you enjoy hands-on learning and working with plants and soil, this is the class for you! Horticulture is the study of plant science that is focused on fruit, vegetable, flower, and ornamental plant production. The course will also cover the various technologies within the plant science industry including greenhouse management and the use of horticultural plants in conversation.

### **INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES**

Course#	18001
Credit	1
Grade	9-12
Status	Elective
Pre-requisite	None

This high-energy course includes exploration and basic introduction to the many areas of our nation's largest industry: agriculture. No matter where you live, agriculture touches you every day! Explore units on leadership development, wildlife management, food science, and plant and animal science. Numerous hands-on experiences and activities will enhance learning in all areas.

### **AG BUSINESS MANAGEMENT AND MARKETING**

Course#	18201
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture, Food and Natural Resources

It's business time. This course will place you in the decision-making chair of business situations. Using simulations as well as real business adventures, you will experience firsthand the difficulties and intensity of being a manager. The basics of supply, demand, price determination, local and global trade, marketing and sales, public policy, and managerial and financial skills will all be covered in this course.

### **AG COMMUNICATIONS AND LEADERSHIP**

Course#	18203
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture

Creative and professional communication skills are necessary in all career areas combined with advanced concepts for leadership development can set you a part in an increasing competitive working environment. This course will be increasing all aspects of communication and leadership skills both within and outside of agriculture.

### **NATURAL RESOURCES**

Course#	18504
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture, Food and Natural Resources

Soil, trees and other plants, waterways, wildlife, and all insects and microscopic organisms make up the world around us. How do all of these work together and how do we use all of these in society and for recreation while ensuring sustainability and conservation? These are the guiding questions for this course as we take a look into the natural resources in South Dakota.

### **AGRICULTURE BIOTECHNOLOGY**

Course#	18308
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture

Agricultural biotechnology will experience a 55% growth rate in the next five years particularly in the areas of crop and livestock genetic engineering. Biotechnology in Agriculture is designed to provide students with basic lab skills and skills in biotechnology applications in plant and animal sciences. Mathematics, English, biology, and human relations skills will be reinforced in the course.

### **WILDLIFE & FISHERIES**

Course#	18501
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture

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.

### **ENVIRONMENTAL SCIENCE & ECOLOGY**

Course#	03003
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Introduction to Agriculture

Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conferences and skills competition such as the Environmental/Natural Resources Career Development Event, Envirothon, and related agricultural proficiency awards. Each student will complete a Supervised Agricultural Experience Program/Internship.

### **VETERINARY SCIENCE**

Course #	18107
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	Animal Science

Considered an advanced animal science course, topics covered are veterinary terminology; anatomy and physiology; animal selection; preventing and treating disease; biosecurity; nutrition; breeding readiness; reproduction; animal handling; parasitology; posology; facilities and equipment. Exploring the medical and ethical implications of various practices is also important. Careers are also explored.

### **INTRO TO TECHNOLOGY**

Course#	21051
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Introduction to Technology is a semester that will consist of (8) ten-day technology modules. The student will complete all eight modules consisting of: (1) Energy/Power Module, (2) Communication Module, (3) Manufacturing Module (4) Flight /Aerospace Module, (5) GPS/GIS Module, (6) Research & Design Module, (7) Multimedia (Audio/Visual) Production Module, and (8) Engineering & Construction Module. (\*This course will be designed around the Science, Technology, Energy & Manufacturing [STEM] standards.

### **PHOTOGRAPHIC ARTS**

Course#	11054
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Introduction to photography and photography projects and assignments.

### **CABINETMAKING**

Course#	17007
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Introduction to Cabinetmaking is a semester course that will consist of safely using hand and power tools in the shop. Students will learn about the many careers and opportunities involved in the cabinetmaking industry. Students will learn cabinetmaking vocabulary, skills, and techniques used in the cabinetmaking industry. Students will learn the various methods in casework construction, drawer construction/installation, and cabinet door making/installation. Students will learn various finishing methods and techniques used in the industry. The second quarter of the semester will be project based where students will be hands-on learning in the shop. Students will build individual and group projects.

#### **BASIC ELECTRICITY/HOME MAINTENANCE**

Course#	20101
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Basic Electricity/Home Maintenance is a semester course that will include electrical wiring, plumbing, home repairs and maintenance. Students will learn about the safe use of hand tools and power tools, using the right tool for the specific job. Students will learn basic plumbing principles and techniques. Students will also learn to replace broken windows, replace torn screens in doors and windows. Students will learn how to repair drywall, window/door trim and flooring. Students will learn proper finishing techniques such as painting, staining, and clear-coating materials.

#### **SMALL ENGINES/REPAIR**

Course#	20110
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Small Engine/Repair is a semester course. The course will consist of the study in repairing small gas engines and tools and techniques used in servicing and repair. Students will learn in-depth; the ignition system, compression system, carburetion system and safety concerning 2-stroke and 4-stroke engines. Students will also learn about the many forms of energy consisting of: Atomic Energy, Chemical Energy, heat Energy, Light Energy, Magnetic Energy, Mechanical Energy, and Pressure Energy. Students will also learn about renewable energy. Students projects will include building and testing wind generating models, solar car models and hydro-electric models in their study of renewable energy.

#### **INTRODUCTION TO BUILDING CONSTRUCTION**

Course#	17002
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Introduction to Building Construction is a semester course that will consist of safely using hand and power tools in the shop. Students will learn about the many careers and opportunities involved in the construction industry. Students will learn construction vocabulary, skills, and techniques used in the building trades industry. The last quarter of the semester will be project-based where students will build group projects such as feed bunks, calf-shelters, and garden sheds. Students may have some time for individual projects at the end of the last quarter.

#### **ADVANCED BUILDING CONSTRUCTION**

Course#	17006
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	Introduction to Building Construction

Advanced Building Construction is a semester course that will review the building trades industry, safety, tools, skills and techniques. Students will learn to design a project, create material list create a cut list, figure a bill of material, and

fabricate into a complete project. This will primarily be a project-based course for students that want to further their knowledge into the building trades industry. Students will also be able to bring projects in from home or the farm to work on in the high school shop.

### **INTRODUCTION TO WELDING & FABRICATION**

Course #	13207
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Introduction to Welding & Fabrication is a semester course that will consist of Oxyacetylene Welding and Cutting, Shielded Metal Arc Welding, MIG Welding, and Plasma Arc Cutting. Students will learn about the many careers and opportunities involved in the welding/metal fabrication industry. Students will learn the various safe techniques in Welding and Metal Fabrication. Students will concentrate their studies on safety, skill building, and weld design during the first quarter of the semester and work on individual/group project the last quarter of the semester.

### **ADVANCED WELDING & FABRICATION**

Course#	13208
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	Introduction to Welding & Fabrication

Advanced Welding & Fabrication is a semester course that reviews safety, shop skills, and techniques used in Welding & Metal Fabrications. Students will learn to design a metal project, create parts list create a cut list, figure a bill of material, and fabricate metal parts into a completed project. This will primarily be a project-based course. Students will also be able to bring in equipment/projects from home or farm. Students will repair and/or replace the various parts for the equipment.

## COMPUTER TECHNOLOGY

### COMPUTER STUDIES

Course #	10004
Credit	½
Grade	9
Status	Required
Pre-requisite	None

This course meets the requirement for computers. SD Technology Standards incorporated include Research and Digital Literacy, Critical Thinking, Problem Solving, and Decision Making, Digital Citizenship, and Communication and Collaboration.

In this course, emphasis will be placed on activities using keyboarding, word processing, spreadsheets, databases, slide show presentations, and any additional applications that are available and integrate with the state standards. The primary software used in this class will be Microsoft Office, Google Apps, and other current software applications.



## **FAMILY AND CONSUMER SCIENCE**

### **EMPLOYABILITY**

Course #	22152
Credit	½
Grade	9
Status	Required
Pre-requisite	None

Students will address the multiple roles that enable individuals to connect family, career and community responsibilities. The project-based course addresses the following topics: interrelationship of individual, family, career and community roles and responsibilities, the changing workplace, career decision making and planning, job procurement procedures, interpersonal relationships, teamwork, thinking skills, workplace ethics and attitude, technology, time and information management, workplace health, safety, and legal matters. This course introduces students to the world of work, how it operates, and how they fit into that world.

### **PARENTING**

Course #	19051
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Parenting focuses on the variety of roles and responsibilities parents in our society assume. Students will examine parenting practices such as nurturing, communication, and guidance to develop knowledge and skills that will help them in parenting roles now and in their future. They will also examine the biological processes of parenting and the impact of lifestyle, emotional factors and technology on this process.

### **FOUNDATIONS OF CTE – FAMILY AND CONSUMER SCIENCE**

Course #	12061
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Introductory course that offers a view of all options available to pursue in the Family and Consumer Science field of study.

### **NUTRITION/WELLNESS**

Course #	19253
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

Students will develop the knowledge and skills necessary to make healthy food choices as well as practice safe sanitation, storage, and preparation techniques. This project-based course will address the following topics: influences on food choices, dietary guidelines, nutrients, eating disorders, food labeling, safe food handling, food borne illnesses, selection, storage and preparation of nutritional foods, and the impact of science and technology on nutrition and wellness.

### **DESIGN: HOUSING, TEXTILE & APPAREL**

Course #	19205
Credit	1/2
Grade	9-12
Status	Elective
Pre-requisite	None

Students will integrate knowledge, skills, and practices required for making wise decisions in family housing, textiles, apparel, and design. This project-based course is designed to address elements of design, principles of design, color, fibers, fabrics, history, housing construction/floor plans, furniture construction/arrangement, and careers. This course is recommended for all students to help them explore the importance of wise decisions regarding housing, textiles, apparel, and design throughout their life span.

### **ADVANCED INTERIOR DESIGN**

Course #	19206
Credit	1/2
Grade	9-12
Status	Elective
Pre-requisite	Design

This is a project-based course, which will expand upon fundamentals covered in the Interior Design course in more detail. The class will have a section, which covers sewing skills and projects. Presenters will cover the topics of design in this course.

## FINE ARTS

### ART 1

Course #	05151
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

This course is designed for the beginning student in art. Material covered will give the student a good fundamental background. Drawing, color mixing, design fundamentals and 3-dimensional construction will be included in this course.

### ART 2

Course #	05154
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	Art 1

This course is designed for the beginning student in art. A variety of media will be used including pastels, scratch boards and an emphasis will be in clay and computer-generated art

### ART 3

Course #	05159
Credit	½
Grade	11-12
Status	Elective
Pre-requisite	Art I and Art II

Art III is an advanced art course where students will be given projects to expand upon the knowledge and skills they have learned in Art I and Art II courses. Students will also be encouraged to choose projects outside their skills base.

## CONCERT CHOIR

Course #	05126
Credit	1
Grade	9-12
Status	Elective
Pre-requisite	None

The concert choir performs three major concerts a year including Christmas, spring, and pops concerts. Four lessons a quarter are required for this class: this averages out to a lesson every other week. Lessons do not have to be done individually; you may come in small groups. Members may also audition for jazz, honor, and All State choirs; as well as participate in solo/ensemble contest and community events such as the Variety Show. The choir also travels to several festivals and competitions throughout the year.

## BAND

Course #	05101
Credit	1
Grade	9-12
Status	Elective
Pre-requisite	8 <sup>th</sup> grade band or audition

Open to all students showing musical ability, interest, and who play a band instrument. Members are required to attend all major concerts, pep band performances, and take 4 lessons per quarter. Band members are encouraged to participate in solo and ensemble contest and various honor bands including All-State Band. A major trip will be planned every four years upon proof of motivation, interest and participation.

## FOREIGN LANGUAGE

### SPANISH I

Course #	06101
Credit	1
Grade	9-12
Status	Elective
Pre-requisite	None

Spanish I will provide the student with a general introduction to the Spanish language. The beginning student will learn the vocabulary and grammar necessary to communicate on a basic level. Students will learn how to formulate sentences and dialogues through listening, speaking, reading and writing. Cultural activities will accompany language lessons to acquaint students with food, artistic expression, and diversity of the Spanish-speaking world.

### SPANISH II

Course #	06102
Credit	1
Grade	10-12
Status	Elective
Pre-requisite	Spanish I

Spanish II is a continuation of Spanish I. Conversation and reading are stressed much more. From studying Spanish II, a student will acquire the ability to write on a variety of subjects with more naturalness.

A completion of two years of Spanish does meet the college foreign language requirements for colleges that have such a requirement.

## HEALTH/PHYSICAL EDUCATION

### HEALTH

Course #	08051
Credit	½
Grade	9
Status	Required
Pre-requisite	None

Students will integrate knowledge, skills, attitudes, and behaviors to promote individual and family health and well-being across the lifespan. This project based course will address the following topics: physical, social, emotional, intellectual, vocational, and cultural wellness, impact of heredity and environment, use of effective communication skills and conflict resolution to enhance personal health, personal hygiene, nutrition, influences on food choices, eating disorders, stress management, exercise, communicable diseases, prevention strategies to improve or maintain quality of life, impact of culture, media, and technology on personal health decisions and practices. **This semester course is required for students in grade 9.**

### PHYSICAL EDUCATION

Course #	08001B Boys PE/08001G Girls PE
Credit	½
Grade	9
Status	Required
Pre-requisite	None

This course consists of instruction in calisthenics and physical conditioning along with individual fitness testing. An emphasis on lifetime sports will also be stressed. Its function is to provide organic development through big muscle activity, to improve motor control, to further the development of students mentally, emotionally, and socially, and to further the development of desirable character traits. Students will provide proper clothing including **non-marking** athletic shoes.

**PE is required for all freshman students.** Students who have documented medical exemptions may be excused.

### FITNESS FOR LIFE

Course #	08016
Credit	½
Grade	10-12
Status	Elective
Pre-requisite	None

This fitness for life education course is designed to get students moving and actively engaged in physical activity that will help them not only to better understand concepts related to lifetime sports, but also to get them into a physically active mindset. Students will be able to understand concepts related to teamwork, participation, skill building, and overall activity comprehension in all lifetime activities presented in this classroom. Students will also learn how to properly lift weights without causing self-injury, how to properly conduct themselves in the weight room, and how to make gains in muscle mass, strength, and endurance.

## LANGUAGE ARTS

### ENGLISH 9

Course #	01001
Credit	1
Grade	9
Status	Required
Pre-requisite	None

This course is a study of grammar, mechanics, usage, sentence structure, vocabulary, and basic composition skills with practical application in written communication. Students will study various genres of literature and demonstrate knowledge of literary elements. The course will also utilize the STAR Reading and Accelerated Reading programs.

### ENGLISH 10/SPEECH

Course #	01002
Credit	1
Grade	10
Status	Required
Pre-requisite	English 9

This course has two components. The first will stress skills necessary for students to express themselves clearly in writing. Emphasis will be on developing sentence structure, formulating clear and concise paragraphs, and organizing full-length compositions; grammar, mechanics and usage will be addressed as needed to improve writing; vocabulary and spelling lessons will also be included. The second component will be to stress the development skills for effective communication. Included are units on research, informative speeches, persuasive speeches, demonstration and parliamentary procedure. The course will also utilize the STAR Reading and Accelerated Reading programs.

### ENGLISH 11

Course #	01003
Credit	1
Grade	11
Status	Required
Pre-requisite	English 10

English 11 will involve reading and interpreting American literature, including novels, short stories, essays, and poetry from its beginnings to modern times. The course will also include grammar, vocabulary, and writing and/or evaluating various types of compositions, including but not limited to personal narratives, persuasive essays, expository argumentative essays, comparison/contrast essays, and descriptive essays. The course will also utilize the STAR Reading and Accelerated Reading programs.

### ENGLISH 12

Course #	01004
Credit	1
Grade	12
Status	Required
Pre-requisite	English 11

English 12 will focus on a study of British literature from its earliest times to contemporary writers. The relationship of literature to history is also explored. The composition component of this course focuses on advancing writing skills in terms of content, organization, and conventional writing skills. Vocabulary lessons are also included. The course will also utilize the STAR Reading and Accelerated Reading programs.

## MATHEMATICS

### PRE-ALGEBRA

Course #	02051
Credit	1
Grade	9
Status	Elective
Pre-requisite	Must have passed 8 <sup>th</sup> grade math

Most of the same topics covered in Algebra I will be dealt with in this class. They will be covered at a reduced rate so as to enable better comprehension of material by those that may find Algebra I difficult. Those that take Pre-Algebra, are encouraged to take Algebra I.

### ALGEBRA 1

Course #	02052
Credit	1
Grade	9-10
Status	Required
Pre-requisite	Based on previous performance

Algebra I is used to prepare the student for Geometry and Algebra II as well as prepare them for problems they may find in everyday life concerning mathematics. Main emphasis is on adding, subtracting, multiplying, and dividing of real numbers and polynomials. Other topics covered are factoring, inequalities, functions, relations, and systems of open sentences.

### ALGEBRA 2

Course #	02056
Credit	1
Grade	10-12
Status	Elective
Pre-requisite	Algebra I

This course is a follow up to Algebra I and mainly an extension of the material in Algebra I. Several number systems are studied with emphasis on the real number system. Functions of the various number systems are studied – such as linear, second degree, exponential and logarithmic functions. It prepares the students for higher-level math courses and gives them a greater understanding of algebra. It is strongly recommended that a student take Geometry prior to Algebra II. **A visit with the instructor is recommended if Geometry has not been taken.**

### ACCELERATED ALGEBRA 2

Course#	02057
Credit	1
Grade	12
Status	Elective
Pre-requisite	Algebra II

Senior Math is designed to give a student another option of a math class during their last year of high school. Main topics to be focused on are functions, sequences, trigonometry, logarithms, probability, and other topics related to preparation for a college level math class. Textbook will be from College Preparatory Mathematics Company called Algebra 2 Connections.

## GEOMETRY

Course #	02072
Credit	1
Grade	9-11
Status	Elective
Pre-requisite	Algebra 1

This comprehensive course in geometry examines the properties, relationships, and measurements of plane figures, lines, angles, and 3 dimensional figures. Emphasis is placed upon the development of logical reasoning ability, especially as it is related to geometric proofs. **If a student had difficulty with Algebra I, a visit with staff is recommended.**

## PRE-CALCULUS

Course #	02110
Credit	1/2
Grade	11-12
Status	Elective
Pre-requisite	Algebra I, Algebra II, Geometry

Pre-Calculus is the study of mathematics that follows Geometry and Algebra II and serves as a precursor to calculus (at either the High school or College level). The course will cover the study of functions such as polynomials, rational, exponential, and logarithmic. The course will also include topics in trigonometry including graphs of trigonometric functions, identities, and vectors. Other topics include matrices, sequences, series, probability, and the study of conics.

## CONSUMER MATH

Course #	02157
Credit	1
Grade	10-12
Status	Elective
Pre-requisite	Algebra I

Consumer Mathematics courses reinforce general mathematics topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.

## OCCUPATIONALLY APPLIED MATH

Course #	02152
Credit	1
Grade	10-12
Status	Elective
Pre-requisite	Algebra I

Occupationally Applied Mathematics courses reinforce general mathematics skills, extend these skills to include some pre-algebra and algebra topics, and use these skills primarily in occupational applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.



## SCIENCE

### PHYSICAL SCIENCE

Course #	03159
Credit	1
Grade	9
Status	Required
Pre-requisite	None

Physical science is designed to provide an introduction to course works in the areas of chemistry and physics for ninth grade students. The students conduct laboratory activities and solve problems.

### BIOLOGY 1

Course #	03051
Credit	1
Grade	10-11
Status	Required
Pre-requisite	Physical Science

Biology 1 is broken down into 3 main areas of study.

1) Cellular structure and function

2) Diversity of Life (Bacteria Protists Fungi Plant Animal)

3-The Human Body Systems (Skeleton Nervous Circulatory Digestive Reproduction Immune)

Labs will include the dissection of earthworms, clams, crayfish, grasshopper, starfish, perch, and frogs.

### BIOLOGY 2

Course #	03052
Credit	1
Grade	11-12
Status	Elective
Pre-requisite	Biology I

The three principal topics covered in Biology 2 will be ecology, genetics, and evolution. Ecology is the study of the relationship of organisms to their environment. Genetics will answer many fundamental questions concerning inheritance and physical heredity of humans and other organisms. All students that are interested in pursuing a career in the biological field should consider this course

### ANATOMY & HUMAN PHYSIOLOGY

Course #	03053
Credit	1
Grade	11-12
Status	Elective
Pre-requisite	Biology I

This course is designed for students interested in medicine, nursing, the biological sciences, physical education, or home economics. Intensive work will be done with skeletal, muscular, digestive, and circulatory systems. The main emphasis will be on the structure and function of the human body.

### **CHEMISTRY 1**

Course #	03101
Credit	1
Grade	10-11
Status	Elective
Pre-requisite	Physical science

This course will provide the student with information about the atom, the chemical bond, chemical change, and chemical kinetics and equilibrium. Problem solving as well as laboratory activities will be an integral part of the course. Chemistry will be of value to most college bound students, especially those who may pursue careers in medical or engineering related fields.

### **CHEMISTRY 2**

Course #	03102
Credit	1
Grade	11-12
Status	Elective
Pre-requisite	Chemistry I

Students selecting Chemistry 2 will receive instruction regarding carbon-containing compounds (organic chemistry), the identification of ions in inorganic compounds (qualitative analysis), and chemical kinetics. Students will spend at least 25% of their class time on laboratory activities. The course should benefit those students intending to pursue careers that will require them to take more than general chemistry.

## SOCIAL SCIENCE

### CURRENT EVENTS

Course #	04064
Credit	½
Grade	9-12
Status	Elective
Pre-requisite	None

This course will develop a greater interest and knowledge in the problems, events and happenings, on the local, state, national, and international fronts.

### AMERICAN HISTORY

Course #	04101
Credit	1
Grade	11
Status	Required
Pre-requisite	None

American History gives the student an overall look at the growth of our country and the reasons for the way America developed. The class will start with the Industrial Revolution and cover the post 9/11 world. **Required for all Juniors.**

### WORLD HISTORY

Course #	04051
Credit	½
Grade	10
Status	Required
Pre-requisite	None

World History examines the political, diplomatic, economic, and ideological history of the world beginning with the Renaissance in the 14th century and going to present day. It focuses on the study of the interrelationships of individuals, societies, and cultures to help students understand the issues, concerns, and problems confronting people in our world. **Required for all Sophomores**

### AMERICAN GOVERNMENT

Course #	04151
Credit	1
Grade	12
Status	Required
Pre-requisite	None

This course is designed to study the organization of the American governmental system on all levels: national, state, and local. **Required for all Seniors.**

### GEOGRAPHY

Course #	04001
Credit	½
Grade	10
Status	Required
Pre-requisite	None

Emphasis will be placed on cultural as well as physical geography and political affiliations of the world's continents by map study. Students will be given an opportunity to perform critical thinking skills by synthesizing the geographical information. **Required for all sophomores.**

### PERSONAL FINANCE

Course # 19262  
Credit ½  
Grade 11-12  
Status Required  
Pre-requisite None

This course is designed to help students identify and manage their money to become better consumers and help them achieve their financial goals. The students will learn:

- 1) The financial planning processes
- 2) To apply the process through assignments
- 3) To take control of their finances

### **SOCIOLOGY**

Course # 04258  
Credit ½  
Grade 11-12  
Status Elective  
Pre-requisite None

This course will be a study of society and its effects of the people within it. A section of this course will be devoted to the study of how society affects young people and the problems of drug abuse, alcohol, and stereotypes.

### **PSYCHOLOGY**

Course # 04254  
Credit ½  
Grade 11-12  
Status Elective  
Pre-requisite None

This will be a course study of the classic theories of psychology and the advances that have been made. Personality development, disorders, and treatment will also be included. This course is recommended for college bound students.

### **LAKOTA ACTIVITIES AND CULTURES**

Course # 80022  
Credit ½  
Grade 9-12  
Status Elective  
Pre-requisite None

Lakota Activities and Cultures are divided into 2 parts. The first half provides a basic background in Native American culture and life. The second half covers South Dakota history from the arrival of the white man to the present time. Possible field trips include a trip to the Heritage Center in Pierre, the Prehistoric Indian Village in Mitchell and the Akta Lakota Museum in Chamberlain, and any other opportunities that may come up during the semester. This class includes many activities and projects.