

# Kindred High School Curriculum Guide 2017-18



## KINDRED HIGH SCHOOL CURRICULUM

NAME OF COURSE	CREDIT	GRADE LEVEL(S)
<u>AGRICULTURE</u>		
Agri. Science I Introduction to Ag	1	9
Agri. Science II Fundamentals of Ag	1	10
Agricultural Management, Sales/Marketing	1/2	11-12
Agriscience	1	11-12
Ag Mechanics Technology	1/2	11-12
Botany/Horticulture (Ag or Science)	1	11-12
Carpentry	1/2	11-12
Environmental Science	1/2	11-12
Food Science and Technology	1/2	11-12
Food Science and Technology II	1/2	11-12
Small Engines	1/2	11-12
Welding	1/2	11-12
Individual Agricultural Studies (Special Projects)	1/2	11-12
Supervised Agricultural Experience	1/2	9-12
<u>BUSINESS EDUCATION</u>		
General Business	1/2	9-10
Accounting	1	11-12
Business Law	1/2	11-12
<u>COMPUTER TECHNOLOGY</u>		
Computer Applications I	1/2	9-12
Computer Applications II	1/2	9-12
Desktop Publishing	1/2	10-12
Multimedia	1/2	11-12
Web Page Design	1/2	10-12
<u>DRIVER EDUCATION</u>		
Driver Education (Summer)	1/4	9
<u>ENGLISH LANGUAGE ARTS</u>		
English I	1	9
English II	1	10
English III	1	11
English IV	1	12
Composition	1/2	12
Advanced Composition	1/2	12
Fiction	1/2	11-12
Oral Communication	1/2	10-12
Creative Writing	1/2	11-12

<u>NAME OF COURSE</u>	<u>CREDIT</u>	<u>GRADE LEVEL(S)</u>
<u>FINE ARTS/VISUAL ARTS</u>		
Art (Drawing I, II)	1/2	9-12
Art (Painting I, II)	1/2	9-12
Sculpture	1/2	11-12
Graphic Design	1/2	11-12
Studio	1/2	11-12
<u>FOREIGN LANGUAGE</u>		
Spanish I	1	9-12
Spanish II	1	10-12
Spanish III	1	11-12
<u>FAMILY AND CONSUMER SCIENCE</u>		
Child Development	1/2	10-12
FACS 1	1/2	9-10
Consumer and Resource Management	1/2	11-12
Foods and Nutrition	1/2	9-12
Foods and Nutrition II	1/2	9-12
Textiles and Clothing	1/2	9-12
<u>MATHEMATICS</u>		
Pre-Algebra	1	9
Algebra I	1	9-10
Algebra II	1	10-12
Consumer Math	1	11-12
Informal Geometry	1	10-12
Geometry	1	10-12
Pre-Calculus	1	11-12
Calculus	1	12
College Algebra	1/2	11-12
Trigonometry	1/2	11-12
<u>MUSIC</u>		
Concert Band	1/2	9-12
Concert Choir	1/2	9-12
<u>NATURAL SCIENCE</u>		
Physical Science	1	9
Biology	1	10
Applied Biology/Chemistry	1	11-12
Anatomy and Physiology	1	11-12
Chemistry	1	11-12
Physics	1	11-12
Botany/Horticulture (Ag or Science)	1	11-12

<u>NAME OF COURSE</u>	<u>CREDIT</u>	<u>GRADE LEVEL(S)</u>
<u>PHYSICAL EDUCATION AND HEALTH</u>		
Health	1/2	9
Physical Education 9	1/2	9
Physical Education	1/2	10-12
Weight Lifting	1/2	11-12
<u>SOCIAL SCIENCE</u>		
World Geography I	1/2	9-12
North Dakota Studies	1/2	9
World History	1	10
U.S. History	1	11
American Government	1/2	11-12
Economics	1/2	11-12
Psychology	1/2	11-12
Sociology	1/2	11-12
World Cultures	1/2	11-12
<u>OTHER</u>		
<u>SEEC and NDSCS</u>		
<u>NEW COURSE FOR 2017-18</u>		
Leadership	1/2	10-12

## MINIMUM COURSE REQUIREMENTS FOR GRADUATION IN THE KINDRED SCHOOL DISTRICT

The proper selection of courses by students is an important matter. Each course should be carefully selected as an integral part of the student's four-year educational plan. Carefully considered course selections are equally important to the school district as commitments for staffing for the ensuing year are based on the student selections. All changes must have the approval of the school principal.

### Registration and Course Load

Students will register for the next year's classes in the spring of the preceding year. Due to the limited number of PE, art, special projects openings, students may be restricted to the number of these classes that they may take per year. Students will not be allowed to take more than one full time study hall per semester. All students will receive credit for classes at the end of each semester. Example: students in a full year course like algebra will receive 1/2 credit at the end of 1st semester and 1/2 credit at the end of 2nd semester. Any deviation from this procedure must be arranged with and approved by the principal.

## GRADUATION REQUIREMENTS FOR SCHOOL YEAR 2017-18 KINDRED HIGH SCHOOL

<u>Credits</u>	<u>Required Classes</u>
4.0	Language Arts (English I, II, III and 1 other)
3.5	Social Studies (W. Hist., US Hist., .5 Amer. Gov, .5 Econ & .5 other)
3.0	Mathematics (Algebra I and 2 other)
3.0	Natural Science (Physical Science, Biology and 1 other)
1.0	Physical Education
0.5	Health
0.5	Consumer and Resource Management
3.0	Fine Arts, Foreign Language, Native American Language, or Career/Technical Ed course
18.5	Required Credits
<u>4.5</u>	Elective Credits
23.0	Total Credits

Correspondence courses/summer school courses will be accepted as credit for graduation only as substitutes for elective courses or required courses that have been previously failed. All graduation requirements must be completed to participate in graduation ceremonies. Correspondence courses must be completed by May 1 of the senior year.

### EARLY GRADUATION

Students who have met graduation requirements at the completion of semester 1 of their senior year may participate in graduation ceremonies. Applications to participate in graduation ceremonies must be submitted and approved through the principal/counselor by the end of 1st semester of their Senior year.

### **DUAL CREDIT/EARLY ENTRY CREDITS**

Students will be allowed to earn college credits for dual credit courses or college early entry programs. Student schedule and credits must be approved by the principal. Dual credit can be used as a graduation requirement.

### **CLASSIFICATION (Guide)**

Grade Credits

Freshmen - Completion of Grade 8

Sophomore - 5

Junior - 10

Senior - 16

## KINDRED CLASSES THAT ARE NCAA APPROVED

### **ENGLISH**

English 1

English 2

English 3

English 4

Composition

Advanced Composition

Fiction

Journalism

Lit for Readers

Oral Communication (Speech)

### **MATH**

Algebra 1

Algebra 2

Geometry

College Algebra

Trigonometry

PreCalculus

Calculus

### **SCIENCE**

Biology

Chemistry

Physical Science

Human Anatomy

Physics

Environmental Science

### **Social Science**

American Gov

Economics

Psychology

Sociology

US History

World Geography 1

World Geography 2

World History

### **OTHER**

Spanish 1 and Spanish 2

## **COURSE DESCRIPTIONS**

### **AGRICULTURAL EDUCATION**

#### **AG I INTRODUCTION TO AGRICULTURE**

Grade: 9; Elective; Full Year; 1 credit

Prerequisites: None

This is an applied course designed to enhance the students' perception of agriculture, its applications, and leadership development. The course will cover 6 major divisions of the agricultural industry including: FFA and leadership development, animal science, plant science, agricultural mechanics, agribusiness, and agriscience. Some topics include (but are not limited to): leadership and communications, woodworking and metal working, plant science, animal science, financial record keeping and agribusiness, natural resources management and soil science. Emphasis is placed on problem solving and scientific reasoning applied to real world problems. As a major part of this course, students will participate in exciting hands-on activities and projects throughout the year.

Agricultural education is composed of three equal parts: classroom/laboratory, FFA, and SAE. Therefore, students enrolled in this class will be members of the local FFA chapter and will be required to perform some sort of agricultural career experience outside of the classroom. Arrangements will be made with the teacher to find suitable career experience opportunities for each student. Additionally, this course emphasizes leadership development and service learning both in school and in the community.

#### **AG II FOUNDATIONS OF AGRICULTURE**

Grade: 10; Elective; Full Year; 1 credit

Prerequisite: Ag I Introductions to Agriculture

This course will be a continuation of the curriculum from Ag. I -- Introduction to Agriculture.

### **AGRICULTURAL MANAGEMENT, SALES, AND MARKETING**

\*Even years only (Not available for the 2017-18 school year)

Grades: 11-12; Elective; Semester; 1/2 credit

Prerequisite: None

This course is designed to introduce students to agricultural management, sales, and marketing. Topics covered include:

- Business management and leadership
- Marketing and sales skills
- Advertising and promotions



- Financial management and budgeting
- Resumes and interviewing
- Agribusiness careers

Learning activities are varied with classroom, laboratory, and field experiences

## **AGRISCIENCE**

\*Odd years only

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: Ag II Foundations of Agriculture

The purpose of this course is to utilize prior agricultural knowledge to solve real-world problems. Units covered throughout the year will develop knowledge and skills pertaining to global sustainability as it relates to agriculture. Topics covered include sustainability, ecology, biofuels, biotechnology, and entomology.

Students will conduct self-directed Agriscience research as part of this course.

Learning activities are varied with classroom, laboratory, and field experiences.

## **AGRICULTURAL MECHANICS TECHNOLOGY**

**\*Odd years only**

Grade: 11-12; Elective; Semester; 1/2 credit

Prerequisite: None

This course focuses on the applications of technology in agricultural mechanics.

Topics covered include:

- Electricity
- Green energy technologies (wind, solar, etc.)
- Hydraulics and Pneumatics
- Computer Aided Drafting (PlasmaCam and CNC Router)
- Introduction to Engineering

Course sequence is designed to provide students with applied activities that emphasize new technologies.

## **BOTANY / HORTICULTURAL (SCIENCE OR AG CREDIT – NOT BOTH)**

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: None

This course will prepare students for careers in the horticulture industry. The course will examine the importance of plant cell structures, functions of cells, plant process, nonvascular plants, vascular plants, roots stems, leaves, flowers, and reproduction of plants. Additional topics to be covered include soils, plant identification, plant pathology, and plant entomology. Students will spend time working in the school greenhouse putting into practice greenhouse management skills as they prepare plants for different projects and sales throughout the year. The landscape design portion of the course will prepare students to design, construct, and maintain planted areas for the beautification of home grounds and

other areas of human habitation and recreation. Additionally, the course will cover elements of floral design, grafting, plant propagation, and agribusiness.

## **CARPENTRY**

Grades: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: Ag II Foundations of Agriculture

This course is designed to give the students a background in building design, construction, maintenance, utility design (electrical and plumbing) and cost effectiveness. Approximately one-half of the class will be in the lab constructing a building or doing electrical wiring procedure.

## **ENVIRONMENTAL SCIENCE**

**\*Even years only (Not available for 2017-18)**

Grade: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: None

Course work includes the study of air, water, soil, climate, wildlife, agricultural crop impacts, livestock production impacts, energy uses and needs, human activity issues, present and future plant and animal biodiversity issues, and wetlands. Extra attention will be paid to current environmental issues, including the impacts of the oil, gas, and coal industries of North Dakota. Course work includes field labs to the Eckre Ranch and other classroom and laboratory experiences.

## **FOOD SCIENCE AND TECHNOLOGY**

Grade: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: None

This course is designed to allow students to learn of and to understand the science of food production. The course will cover the methods and science of processing grain, dairy, fruit/vegetable, and meat products. Additionally, time will be spent on product development, marketing, food preservation and sanitation, food chemistry, and food safety. The course will also pay special attention to current issues concerning the agricultural industry. Learning activities are varied with classroom, laboratory, and field experiences.

## **FOOD SCIENCE AND TECHNOLOGY II**

Grade: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: Food Science and Technology

This course will be a continuation of the curriculum from Food Science and Technology I.

## **SMALL ENGINES**

Grades: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: Ag II Foundations of Agriculture

This course is designed to give students a background in the theory, operation principles, repair, application and maintenance of small engine technology.

## **WELDING**

Grades: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: Ag II Foundations of Agriculture

This course is designed to improve basic welding skills acquired in previous years and apply them to welding situations, such as blueprint reading, material selection and identification, repair procedures and fabrication methods. Emphasis will be placed on technological advancements taking place in the welding industry. This class will be especially helpful to students considering certain fields of engineering such as civil or mechanical.

## **INDIVIDUAL AGRICULTURAL STUDIES (Special Projects)**

Grades: 11-12; Elective-- by arrangement only; Semester; 1/2 credit  
Prerequisites: Ag II Foundations of Agriculture

This course will provide students in agriculture an opportunity to expand and explore the fields of agriculture, leadership, and personal development on an individual basis. By arrangement only.

## **SUPERVISED AGRICULTURAL EXPERIENCE**

Grades: 9 – 12: Elective; by arrangement only - 1/2 credit  
Co-requisite/Prerequisite: Ag I Introduction to Agriculture

This course will be offered for ½ credit per year. A student can enroll in this course each year for four consecutive years (if desired). In order to earn the ½ credit, the student must perform a minimum of 100 hours of work in their Supervised Agricultural Experience Program from January 1-December 31st. Additionally, the student must fill out and submit a proficiency award application to the instructor by April 1st.

## **BUSINESS EDUCATION**

### **GENERAL BUSINESS**

Grades: 9-10; Elective; Semester; 1/2 credit  
Prerequisite: None

The student will develop an understanding of personal banking by learning to balance a checkbook, pay bills, deposit money, write checks and read bank statements. The student will use this information for planning a personal budget and for learning to set short-term and long-term goals.

The student will develop an understanding of the important part that business plays in our daily lives. The student will also develop the ability to use business services intelligently. The purpose of General Business is to enable the student to understand the principles and procedures of business for everyone; whether or not the student contemplates a career in business.

General Business is designed to make available to all students an introductory study of business, including (1) an understanding and appreciation of the nature, scope, and functions of the business-economic system in meeting consumer needs and wants; (2) an understanding of economic principles and desirable business practices which should be followed by consumers in the wise handling of their business affairs; and (3) an understanding appreciation of career opportunities which are to be found in business occupations.

## **ACCOUNTING**

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: None

The emphasis of this course is on basic principles, concepts, and procedures of accounting needed by every student to take advantage of opportunities presented by the business world. Orderly records of business financial activities are essential.

Students will learn to record daily transactions of a business, prepare and interpret financial records, learn about payroll, taxes and governmental regulations in financial records. Students will also become familiar with the computer as a tool for handling business information and records.

A knowledge of accounting is for students who have a variety of career objectives: Beginning vocational preparation for careers in accounting, accounting knowledge and skill needed for careers in related business fields, a foundation on which to continue studying business and accounting at the collegiate level. Accounting contributes to personal ability to earn a living, a person's understanding of the economic activities of the business world, and a person's competence in managing his personal business affairs.

## **BUSINESS LAW**

Grades: 11-12; Elective; Semester; 1/2 credit

Prerequisite: None

Business Law emphasizes the individual's rights and responsibilities under the law. Business Law is a study of basic principles common to a broad base of every day business activities in which an individual is likely to become involved. It is useful to students for personal reasons and can be valuable as background information to individuals who are entering business careers. The course helps make the student a better citizen as he/she realizes that laws are made for the protection of people and their property as well as for the punishment of wrongdoers. Business law develops in the student the ability to know and apply the essential principles of law to the student's day.

## **COMPUTER TECHNOLOGY**

### **COMPUTER APPLICATIONS**

Grades: 9-12; Elective; Semester; 1/2 credit

Prerequisite: Computer Applications 8

Computer Applications I introduce students to computing with “hands-on” computer experience. Students learn about operating system concepts, disk and file management, and the use of integrated software packages.

Topics to be covered include:

- integration of word processing
- integration of graphics
- integration of PowerPoint.

## **COMPUTER APPLICATIONS II**

Grades: 9-12; Elective; Semester; 1/2 credit

Prerequisite: Computer Applications I

Continues the development of skills and knowledge developed in Computer Applications I through study and application of programs. Students will use spreadsheet software to analyze and solve problems. The students will continue to integrate information stored in all software formats.

Topics to be covered include:

- introduction and integration of spreadsheet
- integration of graphics
- use of charts and graphs

## **DESKTOP PUBLISHING**

Grades: 10-12; Elective; Semester; 1/2 credit

Prerequisite: Computer Applications I & II

Students will be introduced to the process of creating professionally designed and printed documents with specialized computer software and hardware. Instructions will be provided to produce layouts for newsletters, catalogs, brochures, etc.

## **MULTIMEDIA**

Grades: 11-12; Elective; Semester; 1/2 credit

Prerequisite: Computer Applications I & II

Students will refine computer applications skills. The students will use hardware such as scanners, digital cameras, video equipment, green screen etc. The students will use software such as I Movie, Photoshop, Garage Band, Photomagico, Flash, and animation software.

## **WEB PAGE DESIGN**

Grades: 11-12; Elective; Semester; 1/2 credit

Prerequisite: None

Students will learn to create and design Web page projects using Dreamweaver. Students will apply their skills by using the Internet as a tool for gathering

information. Students will learn to search the Web efficiently and to use the information to create a presentation, or to create a Web page for a specific topic.

## **DRIVER EDUCATION**

### **DRIVER EDUCATION**

Grade: 9; Elective; Summer School Course; 1/4 credit

Prerequisite: Completion of grade 8 & 14 years of age and valid North

#### **Dakota Driver's Permit**

Driver's education is a summer program, which includes both classroom instruction and Behind-the-Wheel training. This course covers the North Dakota pamphlet, *Rules of the Road*. Information on drinking and driving, blood alcohol levels, buying car insurance and car maintenance hints will be studied by students. State law requires that a student must be 14 years of age to take summer drivers education.

## **ENGLISH LANGUAGE ARTS**

### **ENGLISH I**

Grade: 9; Required; 2 semesters; ½ each semester

Prerequisites: None

This course involves all areas of the language arts curriculum: literature, writing vocabulary usage; grammar/usage; and speaking. Areas of study in this two-semester class may include, but not limited to a Shakespearean drama, a play, novel work, short story work and poetry. Various writing may include narrative and descriptive composition. Students will exhibit a proficiency in all areas of the curriculum by proper speaking, writing, spelling and reading.

### **ENGLISH II**

Grade: 10; Required; 2 semesters; ½ credit each semester

Prerequisite: English I or by approval of the Principal

This course involves all areas of the language arts curriculum: literature, writing, vocabulary usage; grammar/usage; and speaking. Areas of study in this two semester class may include, but not limited to American literature, a Shakespearean play, non-fiction selections, novel work, short story work and poetry. Various writing may include narrative and descriptive composition. Students will exhibit a proficiency in all areas of the curriculum by proper speaking, writing, spelling and reading.

### **ENGLISH III**

Grade: 11; Required; 2 semesters; ½ credit each semester

Prerequisite: English II or by approval of the Principal

This course involves all areas of the language arts curriculum: literature, writing, vocabulary usage; grammar/usage; and speaking. Areas of study in this two-

semester class may include, but not limited to British literature, a play, non-fiction selections, novel work, short story work and poetry. This course is primarily designed as a literature and writing-based course. Various writing may include narrative and descriptive composition. Students will exhibit a proficiency in all areas of the curriculum by proper speaking, writing, spelling and reading.

### **COMPOSITION (DUAL CREDIT ENGLISH)**

Grade 12; elective; 1 semester; ½ credit

PREREQUISITE: previous English courses and by approval of the Principal

This dual credit class offers students an opportunity to work at a college level within the high school system. This course is designed to meet the requirements and expectations of freshman English at the university level. Course work will be challenging and rigorous and will include college-level reading, composition, critical thinking and research. A strong focus will be placed on composition, requiring practice in writing from personal experience to research; students will develop ideas into coherent and intelligent papers.

### **ADVANCED COMPOSITION (DUAL CREDIT ENGLISH)**

Grade 12; elective; 1 semester; ½ credit

PREREQUISITE: previous English courses and by approval of the Principal

During the 2nd semester of ADVANCED COMPOSITION, students will continue to write college-level style papers, using various forms. This dual credit class offers students an opportunity to work at a college level within the high school system. This course is designed to meet the requirements and expectations of freshman English at the university level. Course work will be challenging and rigorous and will include college-level reading, composition, critical thinking and research. A strong focus will be placed on composition, requiring practice in writing from personal experience to research; students will develop ideas into coherent and intelligent papers.

### **ENGLISH 12: (formerly named ADVANCED ENGLISH)**

Grade 12; Elective; 2 semesters; ½ credit each semester

1<sup>st</sup> semester: The first semester of this course will involve job-readiness with writing resumes and cover letters; application completion; business memo writing; newspaper analysis; and business-area work place scenarios. Strong inter-personal skills are necessary for this class as most of the class periods will be large and small group discussion.

2<sup>nd</sup> semester: The second semester of this course will involve contemporary/modern literature; non-fiction and historical fiction reading; and composition work. The semester will also involve some media aspects (blogs, newspaper writing, etc.)

### **FICTION**

Grades 11-12; Elective; semester ½ credit each semester

This literature-based class, designed to promote reading and discussion, is based on a variety of novels, ranging from classic literature to contemporary work. Strong inter-personal skills are necessary for this class as most of the class periods will be large and small group discussion. This course will also involve critical literary analysis writing. Students in this course must read independently and discuss reading intelligently. Reading assignments can be challenging and rigorous.

### **ORAL COMMUNICATIONS (SPEECH)**

Grades: 10-12; Elective; Semester; 1/2 credit  
Prerequisite: None

This course is designed to give students practice in composing and delivering speeches, listening to others, offering constructive criticism, and evaluating what they hear. In this semester course, approximately 15-16 speeches will be presented. Examples of types of speeches to be given are speech to entertain, persuasive speech, speech to introduce, personal anecdotal speech, debate, group discussion, oral interpretation of drama, poetry and short stories, demonstration speech, and several others. Writing is also a part of this course.

### **CREATIVE WRITING**

Grades: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: English II

This course involves writing of all types. The class will study professional writers. The course involves use of language in creating mood, style and atmosphere and emphasizes a variety of genres: short stories, screenplay, novellas, musical compositions, advertising, personal essays, creative historical writing and descriptive writing. Creative writing is open to students who have demonstrated above average ability in writing.

### **FINE ARTS/ VISUAL ART**

#### **ART (DRAWING I, II)**

Grade: 9-12; Elective; Semester; 1/2 credit  
Prerequisites: None

In these courses students explore the fundamental techniques, and materials used in creating two-dimensional drawings. Topics include: gestures drawing, blind contour, shading, basic shape, linear perspective, still life drawing, the grid technique, mark making techniques and portraiture. You will work with a wide range of art tools ranging from pencil, pen & ink, and charcoal to colored pencil, and chalk pastel.

#### **ART (PAINTING I, II)**

Grade: 9-12; Elective; Semester; 1/2 credit  
Prerequisites: None



In this course students explore the fundamentals of color theory and two-dimensional design using a variety of painting techniques and materials. In addition to creating artwork, students will learn about art history, cultural aesthetics, and art's relationship with other subject areas. Topics include: (a) Acrylic painting, (b) Oil painting, (c) Watermedia, and (d) Printmaking techniques.

## **CERAMICS & SCULPTURE**

Grade: 11-12; Elective; Semester; 1/2 credit

Prerequisites: None

Sculpture is an introductory course into the elements and principles of three-dimensional design. Additive, subtractive, and manipulative techniques will be used with a variety of media to explore several sculptural forms. Students will be acquainted with the history of sculpture and the origins of modern techniques. Topics include: (a) Armature based additive sculpture (b) Casting (c) Ceramic hand building techniques, and (d) Wheel thrown ceramics.

## **GRAPHIC DESIGN**

Grade: 11-12; Elective; Semester; 1/2 credit

Prerequisites: None

This course is an introduction to the fundamentals of computer graphics and digital design. Students will become acquainted with vocational uses of the adobe design products: Photoshop, Illustrator and InDesign. Topics include: (a) Photo retouching and color correction, (b) Image manipulation (c) commercial advertising and product design, and (d) Digital art creation.

## **STUDIO**

Grade: 12; Elective; Semester; 1/2 credit

Prerequisites: 4 Classes of HS Art, Instructor Approval

Studio is an independent study in which you will be challenged to create original artwork of your own design. You may utilize any combination of art media that you have worked with in previous courses, while working to build your portfolio and to find your own artistic voice and style. Students will also be given the opportunity to enter local and national competitions.

## **FOREIGN LANGUAGE**

### **SPANISH I**

Grade: 9-12; Elective; Full Year; 1 credit

Prerequisite: None

Spanish I students will learn vocabulary and language skills necessary for basic conversation. They will also learn about different cultures and in doing so, work toward culture awareness and understanding.

## **SPANISH II**

Grade: 10-12; Elective; Full Year; 1 credit

Prerequisite: Spanish I

Spanish II students will increase vocabulary and grammar knowledge while striving to become more fluent in the target language. More emphasis will be placed upon cultural understanding and knowledge of Spanish speaking countries.

## **SPANISH III**

Grades: 11-12; Elective; Full Year; 1 credit

Prerequisite: Spanish II

Listening, speaking, reading, and writing skills are strengthened. There is minimal usage of English in the classroom. Extensive vocabulary and culture study is continued.

## **FAMILY AND CONSUMER SCIENCES**

### **CHILD DEVELOPMENT**

Grades: 10-12; Elective; Semester; 1/2 credit

Prerequisite: None

Child Development is the study of how children grow and develop. Students will investigate how children grow - physically, mentally, socially, emotionally and will put this learning into practice through observations and hand-on experiences with infants, preschool and elementary school children. The child as a member of a family will be a topic, with emphasis placed on the importance of both mothering and fathering roles. Current social issues affecting children will be addressed. These may include impact of family crisis on children, child abuse and neglect, children with special needs, and education. Consumer education will be included in topics such as the cost of bearing and raising a child.

### **Family and Consumer Science I (FACS I)**

Grade 9-10; Elective; Semester; 1/2 credit

Prerequisite: none

This is a comprehensive course that provides students the opportunity to learn skills in all area of Family and Consumer Sciences Education. Students will receive instruction in areas critical to the success of balancing work and family responsibilities. The course will include instruction in the areas of Family Life, Nutrition and Foods, Textiles and Clothing, Housing and Interiors, Child Development and Care, and Consumer Education.

### **CONSUMER AND RESOURCE MANAGEMENT**

Grades: 11-12; Required; Semester; 1/2 credit

Prerequisite: None

This is a required course at KHS. Financial education is of major importance in today's society. Students will study units such as: careers, budgeting, housing, transportation, insurance, credit and food costs. Students will also investigate lifestyles and their role in the importance of financial decisions. Students will also take part in class action lawsuits that provide education about underage alcohol use.

## **FOODS AND NUTRITION I**

Grade: 10-12; Elective; Semester; 1/2 credit  
Prerequisite: None

Good nutrition is a major contributor to lifetime wellness. The study of nutrition, how we are affected by the food we eat, is the focus of this semester class. Students will learn principles and techniques of food selection and preparation to meet the USDA Dietary Guidelines for good health. The purpose of this course is to increase knowledge of food preparation and to discover and discuss current issues related to food and nutrition. Typical units include: basic nutrient requirements, my Plate, breakfast, baking, fruits and vegetables, and grains. Labs are usually used once a week.

## **FOODS AND NUTRITION II**

Grade: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: Foods I

Students will learn principles and techniques of food selection and preparations to meet the USDA Dietary Guidelines for good health. Proper food storage and care, time management, planning efficient workspaces for food preparation and service, entertaining, and meal planning are all put into practice during laboratory experiences. Meats, seafood, dairy, cakes, pies and the food service industry are typical units studied.

## **TEXTILES AND CLOTHING**

Grade 9-12; Elective; Semester; 1/2 credit  
Prerequisite: None

Home manufacture of clothing is a minor task in most of today's families, but provision of adequate clothing is a need for everyone. The course will emphasize developing consumer skills to make the best use of resources when planning for, purchasing, and caring for clothing and other textile products. This course will help the student develop a personal clothing plan which reflects his/her personality and which is suitable for the chosen lifestyle and occupation. For those students who are interested in developing or improving clothing construction skills, projects will be individualized to meet personal goals.

## **MATH**

### **PRE-ALGEBRA**

Grade: 9; Elective; Full Year; 1 credit

Prerequisite: By approval of math instructor and counselor or principal

Pre-algebra provides additional study and practice of mathematical concepts to prepare students for algebra. Percent applications, exponents, scientific notation, graphing, geometry concepts, Pythagorean property, and probability and statistics will be studied. Integers, rational numbers, proportions, and inequalities may also be covered.

## **ALGEBRA I**

Grade: 8-10; Required; Full Year; 1 credit

Prerequisite: None

Algebra is a systematic way of calculating numbers and variables through the use of symbols and rules of operation. Graphing, word problems, equations, factoring are some of the mathematical functions covered. Algebra is a prerequisite for all the higher mathematics courses.

## **ALGEBRA II**

Grade: 10-12; Elective; Full Year; 1 credit

Prerequisites: Algebra I

Algebra II is a review of basic concepts of Algebra I with an emphasis on application/problem solving. Advanced topics such as quadratic equations, functions, complex numbers, conics and some trigonometry will be covered. Any student planning to take chemistry or physics should take this course. Algebra II should be taken by any student who plans to attend a 4-year college.

## **CONSUMER MATH**

Grade 11-12; Elective; Full Year; 1 credit

Prerequisite: None

Consumer Math provides comprehensive coverage of personal and business-related mathematics. In addition to reviewing the basic operations of arithmetic, students are prepared to understand and manage their personal finances, as well as grasp the fundamentals of business finances. Consumer Math prepares students to be smart shoppers, informed taxpayers, and valued employees.

## **INFORMAL GEOMETRY**

Grade: 10-12; Elective; Full Year; 1 credit

Prerequisite: Algebra I; By approval of math instructor and counselor or principal

This course will address all concepts that are covered in regular geometry, except, not as in -depth. Hands-on activities will be used to help reinforce the geometric concepts. A calculator that is fraction capable is necessary.

## **GEOMETRY**

Grade: 9-12; Elective; Full Year; 1 credit

Prerequisite: Algebra I; By approval of math instructor and counselor or principal

Geometry is the study of measurement, properties, and relationships of points, lines, angles, surfaces and solids. Reasoning and problem-solving skills will be used in the development of proofs and concepts.

### **COLLEGE ALGEBRA – DUAL CREDIT**

Grade 11-12; Elective; Half year; .5 credit

Prerequisite: Algebra II

College Algebra fully integrates topics from algebra, geometry, trigonometry, discrete mathematics, and mathematical analysis. These will prepare you for post secondary math courses such as College Algebra, College Trigonometry and in developing formulas for Calculus.

Real World problems are developed throughout the course and become progressively more elaborate. With regular practice, high-school level students will be able to solve challenging problems such as rate problems and problems involving abstract quantities. Conceptually oriented problems help prepare students for college entrance exams such as the ACT and SAT.

### **TRIGONOMETRY-DUAL CREDIT**

Grade 11-12; Elective; Half year; .5 credit

Prerequisite: Algebra II and Geometry or Informal Geometry

Trigonometry is a field of mathematics in which the geometric properties of the angles and edges of triangles are used to measure lengths. Real-world problems involving trigonometry are common in engineering, physics, construction and design.

Topics include relationships with in right and oblique triangles; the unit circle; vectors; sine, cosine, and tangent functions and their applications; inverse trigonometric functions, identities; and the trigonometric form of complex numbers. The student will also solve conditional trigonometric equations as well as application and modeling problems related to the above topics.

### **PRE-CALCULUS**

Grade: 11-12; Elective; Full Year; 1 credit.

Prerequisites: Algebra II & Geometry

This course is the study of trigonometry and linear algebra. Pre-calculus is a course for the student who is planning to attend a four-year college. A strong background in algebra and geometry is highly recommended. The first semester students will study trigonometry and the second semester will be the study of various topics. The following topics are covered in trigonometry: 1. Functions; 2. Graphing circular functions; 3. Triangles; 4. Trigonometric equations and their graphs; 5. Polar coordinates and graphs. The following topics are covered in semester 2: 1. Complex numbers; 2. Exponential and Logarithmic Functions; 3. Sequences and series; 4. Combinations and Probability; 5. Statistics; 6. Other

topics such as fractals, linear programming and matrices, and differentiation will be covered as time permits.

## **CALCULUS – AP**

Grade: 12; Elective; Full Year; 1 credit.

Prerequisites: Pre-Calculus or College Algebra/Trigonometry

This course is designed for prospective mathematics majors and students interested in engineering, computer science, physics, business or life sciences. The following topics are covered throughout the year: 1. Limits; 2 Derivatives; 3. Antiderivatives; 4. Integrals; 5. Parametric Equations; 6. Fluid Dynamics; 7. P-Series. Other topics such as slope fields, polar and vector functions, logistic growth, and piecewise integration will be covered as time permits.

## **MUSIC**

### **CONCERT BAND**

Grade: 9-12; Elective; Semester or Full Year; 1/2 or 1 credit

Prerequisite: None

Concert band is open to students in grades 9-12. Members of this organization also make up the Pep Band which plays at athletic events throughout the year. Students in Concert Band are required to be at all performances.

### **CONCERT CHOIR**

Grade: 9-12; Elective; Semester or Full Year; 1/2 or 1 credit

Prerequisite: None

Concert choir is open to students in grades 9-12. Concerts are set up throughout the school year with the winter and spring concert being the main ones. Students in Choir are required to be at all performances.

## **NATURAL SCIENCE**

### **PHYSICAL SCIENCE**

Grade: 9; Required; Full Year; 1 credit

Prerequisite: None

Physical science is an introductory course to the sciences of chemistry and physics. Topics included are: the metric system, the world of matter, the structure of the atom, chemical names, formulas, balancing equations, acid/base chemistry, mechanics, wave motion, sound, light, heat, magnetism, electrostatics, and current electricity. The techniques and procedures used by chemists and physicists are emphasized. Students are provided the opportunity to understand, to appreciate, and to relate the interaction of matter and energy in their physical environment through a variety of classroom experiences. Hands-on laboratory investigations are emphasized.

## **BIOLOGY**

Grade: 10; Required; Full Year; 1 credit

Prerequisite: Physical Science

Biology is the study of living organisms and the unique properties which set them apart from the non-living world. These properties are studied at the molecular level and then at the cellular level. From the molecular/cellular level, students progress to genetics, classification, microbiology, multicellular plants, invertebrate animal life then vertebrate animal life. Throughout the year the topics of biological populations, ecology, and the development of an "appreciation for nature" are mixed into their studies of the Biological world.

Concepts and principles will be taught with lecture/discussion and laboratory investigations. Laboratory investigations range from simple observations to the extraction of DNA from human cells.

## **APPLIED BIOLOGY/CHEMISTRY**

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: None

Applied Biology/Chemistry consists of instructional units presenting the scientific fundamentals of biology, chemistry, and physics that provide a foundation in applied science. This application-oriented, hands-on approach will assist the student to make the connection between abstract ideas and concrete experiences. With this fundamental basis in science the student will gain a better understanding of how science works in the every day environment.

## **ANATOMY AND PHYSIOLOGY**

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: Biology

Human Anatomy and Physiology is an advanced course designed for the study of the structure and function of the human body. This course includes studying cell biology, cell specialization, biochemistry, and the ten body systems. All of these systems of the body are again reviewed in the dissection of the pig. Students planning further education in areas of biology and medicine should take this course.

## **CHEMISTRY**

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: Algebra I, Physical Science and must be enrolled in or have already passed Algebra II

Chemistry is the study of matter and the changes matter undergoes. The topics covered include: atomic structure, the periodic table, chemical bonding, acids and bases, the mole concept, quantitative relationships, and nuclear chemistry. It is designed for a wide range of academic abilities and post-secondary interests.

This course will serve as an excellent preparation for college level freshmen chemistry. Hands-on laboratory investigations are emphasized.

## **PHYSICS**

\*Even years only (Not offered for the 2017-18 school year)

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: Algebra I, Physical Science and must be enrolled in or have already passed Algebra II

Physics is the study of energy, matter, and their interaction. The following topics describe the emphasis of the course: motion, one and two-dimensional kinematics, energy and simple machines, momentum and collisions, rotational motion, energy conversation, circuitry and magnetism. Preparation for freshman level college physics will be completed. Math and problem-solving skills will be an integral part of the physics program. Hands-on laboratory investigations are emphasized.

## **BOTANY / HORTICULTURAL**

(SCIENCE OR AG CREDIT – NOT BOTH)

Grade: 11-12; Elective; Full Year; 1 credit

Prerequisite: None

This course will prepare students for careers in the horticulture industry. The course will examine the importance of plant cell structures, functions of cells, plant process, nonvascular plants, vascular plants, roots stems, leaves, flowers, and reproduction of plants. Additional topics to be covered include soils, plant identification, plant pathology, and plant entomology. Students will spend time working in the school greenhouse putting into practice greenhouse management skills as they prepare plants for different projects and sales throughout the year. The landscape design portion of the course will prepare students to design, construct, and maintain planted areas for the beautification of home grounds and other areas of human habitation and recreation. Additionally, the course will cover elements of floral design, grafting, plant propagation, and agribusiness.

## **PHYSICAL EDUCATION AND HEALTH**

### **HEALTH**

Grade: 9; required; Semester; 1/2 credit

Prerequisite: None

This course is designed to build upon the middle school health course. Health is designed to enable our students to be responsible, respectful, informed and capable when making decisions that impact the well being of themselves and others. Health areas to be explored include making responsible decisions; communicating effectively; mental & emotional health; building self-esteem; adolescence relationships & responsibilities; drugs, alcohol and tobacco; human sexuality; Family relationships, preventing abuse & violence; and peer pressure.



Health is a course designed to help ninth grade students learn the skills necessary for living. This course will stress the importance of maintaining good health.

### **PHYSICAL EDUCATION 9**

Grade 9; Required; Semester ½ credit  
Prerequisite: None

This class will expose the student to life long fitness through fitness training, team and individual sports. The students will be tested in a variety of fitness skills two times per semester.

### **PHYSICAL EDUCATION 10-12**

Grade 10-12; Elective ½ credit  
Prerequisite; None

This class will continue to emphasize long long fitness through fitness training, individual, and team sports. The student will also be introduced into goal setting and journal writing. The students will be tested on physical fitness skills two times per semester.

### **WEIGHT LIFTING**

Grade: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: None

Students will learn the basics of weight training; lifting techniques, spotting, and safety issues. Students will be introduced to different lifting schedules, circuit training, Olympic lifts, plyometric and agility training.

### **SOCIAL SCIENCE**

#### **WORLD GEOGRAPHY I**

Grade: 9-12; Elective; Semester; 1/2 credit  
Prerequisite: None

World Geography I will inform students about the world and help them develop an understanding of the geographical and historical background of major world regions.

Students will study major regions of the world as directed by the teacher and/or current world events. The students will take active part in discussions, research, readings, and various projects throughout the year. Students will build on their basic geographical skills as they study the five themes of geography and the globalization of cultures.

#### **NORTH DAKOTA STUDIES**

Grade 9; Elective; Semester; 1/2 credit

This class is offered to the 9th grade and will cover a time frame from life in North Dakota in prehistoric times to life on the plains; hunting and trapping; early settlement from 1878-1914, the dust bowl of 1929, and times from 1945 to the present.

## **WORLD HISTORY**

Grade: 10; Required; Full Year; 1 credit  
Prerequisite: None

World History will study man from the earliest civilizations to the present. This course will direct students toward those areas of the world that have had the biggest influence on Western Civilization. Students will also use newspapers and websites to investigate historical happenings.

## **UNITED STATES HISTORY**

Grade: 11-12; Required; Full Year; 1 credit  
Prerequisite: None

The first semester will cover pre Civil War to the end of World War I. The second semester will cover the 1920's to the present. In class the students will be using primary and secondary sources to examine varying ethical issues in our past. Students will not only gain knowledge from the book and what it offers, but also they will explore the Internet. Through discussion, lecture, readings and films the students will gain insight not only into the past of America, but insight into themselves as well. Students will also explore the Internet. Programs to prepare students for life include the Electronic Model Congress and the Stock Market Game. Both programs prepare the students for lifetime situations, communication skills, and technological skills.

## **AMERICAN GOVERNMENT**

Grade: 11-12; Required; Semester; 1/2 credit  
Prerequisite: None

This course will study of the U.S. Government and related issues. Students will study the origins and various levels of government in our society and how this information relates to current wants. .

## **ECONOMICS**

Grade: 11-12; Elective; Semester; 1/2 credit  
Prerequisite: None

This class is an introductory course in economics which will explore choice making, as well as the components and characteristics of the American Market Economy, the student will examine the basic principles of supply/demand economics, business and market structures and the role of government in our economy today. Students will research the various economic systems, participate in a stock market simulation, create graphs, and the role of government in economics.

## **PSYCHOLOGY**

Grade: 11-12; Elective; Semester; 1/2 credit

Prerequisites: None

Psychology is the study of human behavior and this course studies the various reasons for human behavior. Although this class does contain a great deal of information, it only introduces students to the subject of psychology. This course is a college prep class and will challenge students who are college bound.

## **SOCIOLOGY**

Grade: 11-12; Elective; Semester; 1/2 credit

Prerequisite: None

Sociology is the study of our society, other societies and the interaction of people in groups. Emphasis will be placed on problems existing within our society and the factors which influence group behavior. Although this class does contain a great deal of information, it only introduces students to the subject. This course is a college prep class and will challenge students who are college bound.

## **WORLD CULTURES**

Grade: 11-12; Elective; Semester; 1/2 credit

Prerequisite: None

In this course students will study the major regions of the world as directed by the teacher and/or current world events (examples are the Persian Gulf War and the study of the Middle East; and the break up of the Soviet Union). The students will take active part in discussions, research, readings, and various projects throughout the year. Students will build on their basic geographical skills as they study the five themes of geography and the globalization of cultures. In addition, students will learn how the elements of culture lead to diversity among the various cultures of the world.

## **OTHER COURSE OFFERINGS**

### **SEEC and NDSCS**

The SEEC in partnership with NDSCS offers a variety of online courses that you may be interested in. If you would like more information please see the guidance counselor.

### **LEADERSHIP**

Grade: 10-12; Elective; Semester; 1/2 credit

Prerequisite: None – Preference given to upperclassmen

This class on leadership is designed to strengthen students' personal and group leadership skills. In this class, we will talk about being a positive member of a team, school, and community. This course will cover personality testing, leadership styles, motivation and training, employee and sports recruitment, and current events. Students will practice effective communication (both in a group

and in front of the class), human relations, decision making, and reading and writing skills. Leadership will involve reading various books about leaders, writing a leadership essay, and interviewing positive figures throughout our school and community. At the end of the class, students will have a better understanding of what it means to leave a positive impression, while also taking great pride in being a Viking.