

Course Descriptions

For the Advanced Career Endorsement—2 credits of Ag classes or FAC classes are required. One credit of CTE or World Language for Basic and Advanced Endorsement. Two credits of CTE or World Language for Advanced Honors.

Agriculture Education Classes

Introduction to Agriculture, Foods, and Natural Resources (18001)

Prerequisites: None

Grade Level: Grade 9 or open to any student who hasn't taken an Ag class.

Credit--.5

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

Fundamental Ag Mechanics (18401)

Prerequisites: None

Grade Level: Grade 9 or open to any student who hasn't taken an Ag class.

Credit--.5

Fundamental Ag Mechanical Technologies is offered to help students build basic knowledge and skills in the area of agricultural mechanics, along with soft skills necessary for careers in the Agriculture, Food and Natural Resources sector. Topics covered in this course include: electricity, engines and ag technology. More substantial knowledge on the individual topics comes in advanced courses such as Ag Systems Technology, Ag Metal Fabrication, and Fundamental Ag Structures. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Algebra, geometry, English and human relation skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips. This class is reinforced through the FFA and Supervised Agricultural Experience (SAE) programs, the Ag Mechanics Career Development Event, and related Proficiency Experience or Internship Project. Each student will be expected to maintain a SAE.

Agribusiness/Management (18202)

Prerequisites: None

Grade Level: 12

Credit--.5

This course will cover the basics of Farm and Ranch Business Management and will cover the following areas: record keeping, financial analysis, budget analysis, cost and return analysis, cash flow analysis, marketing, investment analysis, taxes, business organizations, ag law and international trade.

Ag Systems Technology (18402)

Prerequisites: None

Grade Level: 11-12

Credit--.5

This course will cover both small gasoline engines and electricity. The first 9 weeks will cover electricity and basic wiring as well as discuss career opportunities in the electrical field. The second 9 weeks will cover small gasoline engines with discussions on 2 and 4 stroke engines and how they function. Students will also have the opportunity to tear down and rebuild a 4 stroke engine.

Fundamental Animal Science (18101)

Prerequisites: None

Grade Level: 10-12

Credit--.5

This class is designed as an introductory course for animal science. It will begin with the domestication and importance of livestock, safety and effects on the environment. The class will move into the basics of each species of beef, swine, sheep, dairy, horses and poultry. Career opportunities will be discussed.

Advanced Animal Science (18107)

Prerequisites: Fundamental Animal Science

Grade Level: 10-12

Credit--.5

In this class students will discuss the following subjects: Anatomy, Physiology, Feeding and Nutrition, and Animal Breeding. There will be opportunity to put to use the skills learned in competitive meat, livestock and horse judging contests.

Wildlife and Fisheries (18501)

Prerequisites: None

Grade Level; 10-12

Credit--.5

Wildlife and fisheries is designed as a course to help students recognize the importance of managing fish and wildlife populations as well as how important their habitat is to those numbers. Students will also learn to identify key factors including social and economic issues related to fish and wildlife management. They will identify the life patterns of fish and wildlife. Rangeland management, outdoor recreation and national parks and how they affect wildlife and fish populations will also be discussed.

Fundamental Ag Structure Technology (18403)

Prerequisites: None

Grade Level: 10-12

Credit--.5

This class is for students who are interested in constructing furniture and other small projects from wood. It will include shop and power tool safety, learning about types of tools and lumber. Students will complete two assigned projects before working on a project of their own choosing. All materials must be paid by the student.

Advanced Ag Structure Technology (18407)

Prerequisites: Fundamental Ag Structure

Grade Level: 10-12

Credit-- .5

This class is a continuation of Woodworking 51043

Fundamental Horticulture (18052)

Prerequisites: None

Grade Level: 10-12

Credit--.5

Horticulture is the perfect class for students that are interested in learning how plants function and how to produce plants. Students will learn about a variety of plant topics including hydroponics, how to propagate and grow plants, soils, plant physiology as well as completing a unit on floriculture and basic floral design. Students will propagate plants, create pest management plans and work with flowers and greenery to create their own holiday centerpieces.

Advanced Horticulture (18053)

Prerequisites: Fundamental Horticulture

Grade Level: 10-12

Credit--.5

This class will introduce students to the tools and terms used in the nursery and landscaping career. They will learn how to select the proper grasses and plants for design. The final project will be to complete a landscape design project.

Ag Metal Fabrication Technology (18404)

Prerequisites: None

Grade Level: 10-12

Credit--.5

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

Fundamental Plant Science (18051)

Prerequisites: None

Grade Level: 10-12

Credit--.5

The plant science industry is a large part of the economic structure in South Dakota, from crop and forage production, to horticulture and forestry. Every corner of South Dakota is involved in the plant science field. The demand for careers in plant science is expected to grow by 10% by 2016. In this course, students develop the necessary knowledge, skills, habits and attitudes for entry-level employment and advancement in areas such as production agriculture, research and horticulture. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. Algebra, biology, English and human relations skills will be reinforced in the course. Opportunities for application of clinical and leadership skills are provided by participation in FFA activities, conferences and skills competitions. Each student will be expected to complete a Supervised Agricultural Experience program.

Ag Leadership and Communication (18203)

Prerequisites: None

Grade Level: 11-12 (Independent study)

Credit--.5

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

Business Classes

Accounting I (12104)

Prerequisites: none

Grade Level: 10-12

Credit—1

This first year accounting course will give the student a thorough background in the basic accounting procedures used to operate a business. The accounting procedures presented will also serve as a sound background for employment in office jobs and preparation for studying business courses in college. The complete accounting cycle is covered and is easily seen as to how each employee's job fits into the cycle for a business. Students enrolled in this elective course can earn one (1) credit for the year upon successful completion of the course. The class is geared toward the sophomore, junior, and senior grade level. Freshmen may take the class if approved by the teacher and guidance counselor.

Advanced Accounting (12108)

Prerequisites: Accounting I

Grade Level: 11-12

Credit - 1

Students in Advanced Accounting will develop advanced skills that build upon those acquired in Accounting I. Additional accounting skills such as departmental accounting, reconciling uncollectible accounts, calculating depreciation on assets, interpreting financial information, and calculating notes and interest will be developed. Computerized accounting may be incorporated where resources are available.

Personal Finance (19262)

Graduation Requirement for the basic diploma and all the endorsements

Prerequisites: prefer that students have taken Computer I or II

Grade Level: 11-12.

Credit--.5

Personal Finance is designed to help students learn and apply valuable life skills in money management, career planning, saving and investing, credit management, and retirement planning. By exploring successful strategies to grow and protect wealth, students will discover the richness of information available to manage their lives and their resources. The financial skills learned will focus on these main areas: Money and Income, Decision Making and Planning, Managing Credit and Debt, and Saving and Investing.

Business Law (12054)

Prerequisites: None

Grade Level: 11-12

Credit--.5

Business Law is a project based course that will use debates, case studies and real-life simulations to introduce you to the basics of business law through a focus on contract law, consumer law, employment law, and business legal structures. After completion of this course, you will gain an understanding of the nature of contractual relationships, legally binding contracts, consumer protection legislation, employer-employee relationships, and legal responsibilities associated with ownership of a business. Knowledge of business law is useful for all students because they will eventually assume roles as citizens, workers, and consumers in their communities and society at large.

Computer Classes

Foundations of Technology (10004)

Prerequisites: Keyboarding skills.

Grade Level: 9 -11

Credit--.5

In computer applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheets, presentation, graphics and database programs. Courses may also cover the use of electronic mail and online collaborative software.

Web Development (10201)

Prerequisites: Foundations of Technology

Grade Level: 9 - 12

Credit--.5

This advanced computer course teaches students how to design websites by introducing them to and refining their knowledge of site planning, page layout, graphic design , and the use of markup languages—such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, Document Object Model and Cascading Style Sheets—to develop and maintain a web page. This course may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods and networking fundamentals.

Computer Gaming and Design (10205)

Prerequisites: none

Grade Level: 9-12

Credit --.5

Computer Gaming and Design courses prepare students to design computer games by studying design, animation, artistic concepts, digital imaging, coding, scripting, multimedia production, and game play strategies. Advanced course topics include, but are not limited to, level design, environment and 3D modeling, scene and set design, motion capture, and texture mapping.

English and Language Arts Classes

English I (01001)

Prerequisites: none

Grade Level: 9

Credit—1

Graduation requirement for basic diploma and all endorsements

The grammar component of this one semester freshman level class includes practice in grammar, usage, and mechanics. The writing component of this class includes practice in writing narrative, informative, persuasive and descriptive essays. The literature component of the one semester freshman level class includes a survey of various genres of literature arranged according to theme. These genres include fiction (short stories, poetry, plays, epics and novels) as well as nonfiction (autobiographies, biographies, essays, and novels). The vocabulary component of this class includes practice in the correct use of vocabulary words, along with weekly vocabulary quizzes.

English II (01051)

Prerequisites: none

Grade Level: 10

Credit--.5

Graduation requirement for basic diploma and all endorsements

Throughout the semester, students will be exposed to a variety of grammar and composition skills. The students will review basic language skills and be exposed to more complex language skills. Students will learn how to write a variety of sentences, paragraphs and compositions. Students will gain the skills to edit, revise and proofread papers. Students will be exposed to the writing of narrative, expository, and research writing. Students will react to written and visual presentations by writing a critique. Students should have a good background in the parts of speech.

Speech (01151)

Prerequisites: none

Grade Level: 10

Credit--.5

Graduation requirement for basic diploma and all endorsements

Throughout the semester, students will be exposed to the communication process and how it applies to our everyday lives. Students will learn how to communicate with others as well as communicating in large groups. Students will perform various public speaking roles while in this class. They will give speeches to inform, persuade and for special occasions. Students will perform roles in group discussions, debates and parliamentary procedure. Students will learn how to better communicate in our society.

English III (01003)

Prerequisites: none

Grade Level: 11

Credit--.5

Graduation requirement for basic diploma and all endorsements

The grammar component of this one semester junior level class includes practice in grammar, usage, and mechanics. The writing component of this class includes practice in writing narrative, informative, persuasive and descriptive essays. A research paper is also completed. The vocabulary component of this class includes practice in the correct use of vocabulary words, along with weekly vocabulary quizzes.

American Literature (01054)

Prerequisites: none

Grade Level: 11

Credit--.5

Graduation requirement for basic diploma and all endorsements

The literature component of this one semester junior level class includes a chronological survey of American literature, beginning with the first Native American literature and ending with literature of the twenty-first century. This survey includes fiction in the form of poetry, short stories, plays and novels, as well as nonfiction in the form of essays, political documents, speeches, autobiographies and biographies. . The vocabulary component of this class includes practice in the correct use of vocabulary words, along with weekly vocabulary quizzes.

English IV (01004)

Prerequisites: none

Grade Level: 12

Credit—1

Graduation requirement for basic diploma and all endorsements

The grammar component of this one semester senior level class includes practice in grammar, usage, and mechanics. The writing component of this class includes practice in writing narrative, informative, persuasive and descriptive essays. A research paper that is part of the required senior project is also completed. The literature component of this senior level class includes a survey of world literature, including a variety of genres arranged according to theme. This survey includes fiction in the form of poetry, short stories, plays and novels, as well as nonfiction in the form of essays, speeches, autobiographies and biographies. The vocabulary component of this class includes practice in the correct use of vocabulary words, along with weekly vocabulary quizzes.

Contemporary Novels (01061)

Prerequisites: None

Grade Level: 9-12

Credit--.5 to 1

Students will spend the year reading novels from a variety of time periods and authors using various writing styles. Emphasis will be placed on plot, characterization, setting and theme. Advanced analysis and synthesis of material will focus on the theme and application. Approximately three or four novels per semester will be assigned. Writing assignments and projects will be integrated into the curriculum. This course can be taken for a semester or a whole year.

Journalism (11101)

Prerequisites: none

Grade Level: 9-12

Credit--.5 to 1

This English course, open to 9th-12th graders, will be a semester or year long course that will include instruction and application of skills in journalism. Students will create an on-line school newspaper as well as yearbook, and they will be actively involved in the production on a one-act play. As students work on the newspaper and yearbook, they will learn the skills needed by reporters, designers, photographers, editors, and publishers.

Creative Communications (01155)

Prerequisites:

none Grade Level:

9-12 Credit--.5

Creative Communications is a one semester high school English elective. This course includes individual and group speech projects such as pantomimes, reader's theatre, improvisation, and puppetry. In addition, students will participate in classroom discussions based on short, theme-based readings from both classic literature and recent periodicals. Examples of unit themes include "Who Has It Tougher – Boys or Girls?", "Body Image: Why Is It a Serious Issue?" and "What Good Are Role Models?"

Standardized Test Preparation (22001)

Prerequisites: none

Grade Level: 9-12

Credit -- .5

Standardized Test Preparation courses help prepare students for national standardized tests such as the PSAT, SAT, and ACT. In particular, these courses assist students in developing and/or expanding their vocabulary, test-taking, and reasoning skills through study, lecture, and practice drills. Course topics may include vocabulary review; root word, prefixes, and suffixes mathematical concepts, logic and rules; and general problem-solving and test-taking strategies.

Family and Consumer Science Classes

For the Advanced Career Endorsement—2 credits of Ag classes or FAC classes are required. One credit of CTE or World Language for Basic and Advanced Endorsement. Two credits of CTE or World Language for Advanced Honors.

Human Development: Preschool to School-Age (19051)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Offered in odd numbered years. Class size is limited to 12 students.) If you enjoy working with preschoolers and school-age children, then you will want to take this class. Through the use of guest speakers, projects, lectures, skits, and student presentations, you will learn about:

- Physical, intellectual, emotional, and social development of preschool through school-age children

- Safe and educational environment for childcare settings

- Practices, regulations and opportunities in the child care industry

- Special topics related to childhood concerns, including childhood diseases

- Special needs, temperament, peer pressure, school-readiness

- First aid/emergency training

Human Development: Prenatal to Toddlers (19052)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Offered even numbered years. Class size is limited to 12 students.) What factors can promote having a healthy baby? How does a child develop emotionally, physically, intellectually and socially? In this class, the students will learn the answers to these questions by utilizing the Internet and drug-affected doll model, the fetal alcohol syndrome doll model, and the Smokey Sue doll model. A major project involves caring for a computerized "baby" to simulate caring for an infant.

Human Development: Adolescence to Death (19261)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Offered odd numbered years. Class size is limited to 12 students.) During this class, students will learn about the physical, intellectual, emotional, and social development of teenagers and adults. Emphasis will be placed on developing effective communication skills, establishing healthy dating and marriage relationships, identifying factors that affect one's personality and outlook on life and coping with a crisis. They will also learn how to be a wise consumer when planning a wedding.

Employability (22152)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Class size is limited to 12 students.) This course covers the topics of exploring career options; determining job trends and outlooks; completing application forms and resumes; conducting job interviews, writing follow-up letters; locating career opportunities; identifying desirable work skills and ways to keep a job; getting along with co-workers and employers; identifying labor laws; coping with stress and conflict.

Career Exploration (22151)

Prerequisites: none

Grade Level: 9-12

Credit--.5

Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

Nutrition & Wellness I (19253)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Class size is limited to 12 students.) In this class, students will learn about using MyPyramid for planning nutritious snacks and breakfasts. Through food labs, they will demonstrate food safety and sanitation techniques and cooking principles. They will learn about the functions and food sources for the major groups of nutrients. They will learn to read food labels to compare the nutritional value of food. Weight maintenance and wellness topics will also be addressed.

Nutrition & Wellness II (19253)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Class size is limited to 12 students.) For one semester, the students learn about food technology, factors that influence the selection of food choices, nutritional needs across the lifespan, food-borne illnesses, meal planning, food preparation principles, special dietary needs and eating disorders. A major project in this class is planning, preparing, and serving a guest meal.

Nutritional Sciences (16054)

Prerequisites: none

Grade Level: 9-12

Credit - .5

Nutritional Sciences courses provide students with knowledge and skills related to commercial food preparation and/or production, with a strong emphasis on nutrition, balanced diets, and satisfying special dietary needs. Topics typically include assessing nutrient content, the science of food and nutrition, physiology and utilization of nutrients. Course content may also cover additives, contaminants, food-borne illnesses, and food technology.

Relationships across the Lifespan (19255)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Offered even numbered years. Class size is limited to 12 students.) This class examines the function and dynamics of interpersonal relationships. Through this course, students will analyze healthy relationships with children and adults of all ages in the context of family and workplace. The course will also cover factors related to families across the lifespan.

Interior Design (19205)

Prerequisites: none

Grade Level: 9-12

Credit--.5

(Class size is limited to 12 students.) During the semester, the students will learn how to use a computer floor plan program to show the arrangement of furniture and appliances inside the home. They will analyze guidelines for selecting home furnishings, floor coverings, wall coverings, and window treatments. They will also compare and contrast the various furniture designs and architectural styles of houses.

Fine Arts Classes

One Credit of Fine Arts is required for the basic diploma and all endorsements

Chorus (05110)

Prerequisites: none

Grade Level: 9-12

Credit--.25

Chorus provides an opportunity for students interested in improving their musical ability through singing. Students will be exposed to a wide variety of music, will gain an understanding of the language of music and its relation to history. Chorus performs at a number of school functions including concerts, contests and festivals. Students will also have the option of being involved in additional music activities such as solos, small ensembles, and honors choirs

A Band (05101)

Prerequisites: Must have completed or currently working towards completion of a second Method Book

Grade Level: 7-12

Credit--.5

A Band consists of students in grades 7-12. This course proved an exposure to a variety of musical styles and playing situations. Students will participate in Pep Band, Marching Band, and Concert Band. Pep Band performs for home athletic events, local events, and tournaments. Marching Band performs in various parades during the school year and in the summer. Concert Band prepares music for and performs at least two concerts, along with participating in a contest. Students also have the opportunity to participate in a variety of other musical venues.

Art I 62001 (Introduction to Art) (05154)

Prerequisites: none

Grade Level: 9-12

Credit--.5

Learn basic Art techniques and skills such as drawing, linear perspective, and color theory, while using a variety of different media in drawing and painting projects.

Art II (05174)

Prerequisites: Art I strongly recommended but not required

Grade Level: 9-12

Credit--.5

Discover and learn about major art movements and artists around the world while making art projects with related themes. A few examples of class projects are African masks, Inuit carving, clay relief, an Impressionist landscape, and much more. Students will use a wide range of different media as we explore a variety of techniques in drawing, painting and 3-D media to create art with a multi-cultural approach.

Art III (05158)

Prerequisites: Art I or Art II

Grade Level: 10-12

Credit--.5

Build your skills in drawing, painting and 3-D media using various materials and more advanced techniques. Create sculpture using wire, clay and other available materials, and learn basic printmaking techniques. Continue to study major artists and art movements and apply these themes in art projects.

Art IV (05155)

Prerequisites: Art I or Art II

Grade Level: Independent Study with approval of Instructor
Credit--.5

This is an advanced class in drawing, painting and 3-D media. Discover art from different parts of the world and different time periods. Examples include learning to draw portraits using techniques developed in the Renaissance, painting landscapes in the ancient Japanese art of Sumi painting, or experimenting with computers in printmaking and graphic design. This is just a small sample of projects we can explore as we continue learning more artists, their theories and techniques.

Art V (05159) – Art VI (05170)

Prerequisites: By permission of instructor only.

Grade Level: Independent Study with approval of Instructor
Credit--.5

Explore advanced painting, drawing, ceramics and sculpture techniques. Study various artists and periods in Art History as you create your own artwork. See your talent grow and develop. Recommended for advanced students only.

Play Production (05056)

Prerequisites:

none Grade Level:

9-12 Credit--.5

This Fine Arts will be a semester course that will include instruction and application of skills in play production. As students work on the production of a one-act play, they will learn

about script selection, directing, casting, set design, blocking, costuming, lighting, advertising, and performance.

Foreign Language Classes

**One credit of CTE or World Language for Basic and Advanced Endorsement.
Two credits of CTE or World Language for Advanced Honors.**

Spanish I (24052)

Prerequisites: none

Grade Level: 9-12

Credit--1

Communication- speaking, reading, writing, and listening- and cultural awareness of the "hispanoblante" (native Spanish speaker) are the focus of this course. Students listen to and watch native speakers who make the presentations in the audio and videotape activities, which help to give this introductory course an authentic Hispanic flavor. During the first couple of chapters, students in this course will find themselves very quickly greeting, questioning others and talking about themselves - all in Spanish! The focus in these first chapters is vocabulary development. As the school year progresses, the focus broadens with the inclusion of grammar and usage rules.

Spanish II (24053)

Prerequisites: Spanish

I Grade Level: 10-12

Credit--1

Students continue to raise proficiency levels in the five major areas of study - speaking, reading, writing, listening, and cultural awareness. Students will continue to develop their vocabulary base as well as learn simple and compound past and future tenses. More time and attention are devoted to reading comprehension and writing activities.

Spanish III (24054)

Prerequisite: Spanish

II Grade level: 11-12

Credit--1

Development of linguistic proficiency and cultural sensitivity are still the goals. Material continues to be presented in audio, video and print formats. The first two chapters are a review of Spanish II. Students will demonstrate ability to communicate in multiple tenses and moods, use command forms and learn about the daily life, customs, and culture of the native Spanish speaker.

Math and Science Classes

General Math

(02002) Prerequisites:

none Grade Level: 11-12

Credit—1

**Can be used as one of the three math required for the basic diploma and
Advanced Career Endorsement**

This course is for the non-college bound students. The purpose of this class is to strengthen basic math skills and apply them to real life situations. Topics taught include whole numbers, decimals, fractions, ratios, percentages, basic algebra, and basic geometry. Applications include insurance, taxes, shopping, hourly wages, reading graphs and tables, building scale models, and banking.

*General Math class does not count as a Math credit for admission into college.

Algebra I (02052)

Prerequisites: Pre-Algebra or Successful completion of 8th grade math. 8th grade students are selected based on grade and teacher recommendation.

Grade Level: 8-9

Credit—1

Graduation requirement for the basic diploma and all endorsements

Begins with a review of the basic properties of numbers and variables, solving equations, and positive and negative numbers. The new topics covered in this course are: 1) Using formulas to find area and volume, 2) Polynomials and monomials, factoring trinomials and the difference of squares, 3) graphing lines using the slope and solving equations with two variables, 4) ratios, decimals and percentages, and 5) squares and square roots. If time, we may even get to quadratic equations.

Algebra II (02056)

Prerequisites: Algebra I

Grade Level: 10-12

Credit—1

Required for the Advanced and Advanced Honors Endorsement

Algebra II begins with a review of the basic mathematical properties presented in Algebra I relating to equations and inequalities. Students taking this class will need to be competent in the basics of Algebra. After a brief review of Algebra I, we will move into several new and more challenging topics. These new topics will include but are not limited to the following: 1) Linear equations and functions 2) Polynomials, 3) Rational, Complex and Irrational numbers, 4) Quadratic and polynomial equations, 5) Circles and parabolas related to geometry, and finally 6) Exponential and log functions, sequences and series. As we move into the new topics the material will become more challenging and require more work.

Geometry (02072)

Prerequisites: Algebra I

Grade Level: 9-12

Credit—1

Required for the Advanced and Advanced Honors Endorsement

Covers topics beginning with the basic properties of objects, then constructions using a straight edge and compass. Next, we cover conditional statements. Two column proofs of theorems and postulates lead to proving general cases and relating it to real life examples. Also includes properties of triangles and circles, and measurements in planes and in space.

Pre-Calculus (02110)

Prerequisites: Geometry, Algebra II

Grade Level: 11-12

Credit—.5

Precalculus and Trigonometry required for Advanced Honors Endorsement

Pre-Calculus begins with a brief review of Algebra II, most specifically the concepts of solving and graphing linear and quadratic equations along with imaginary numbers and factoring. The majority of this class will deal with covering trigonometry and applications of trigonometry. Within the field of trigonometry, we will solve problems involving right triangles and general triangles using fundamental trigonometric identities. Vectors, statistics, and exponential functions are other topics that will be discussed in this course. Pre-Calculus is an upper-level math course that involves complex topics. A firm grasp of previous math courses is necessary to be successful within this class. Pre-Calculus is very comparable to an introductory college algebra class and the course is also geared toward preparing

students for Calculus. The primary goal of this course is to prepare students for a college level calculus course. The concepts covered in this course are very similar to that of a college level calculus course.

Trigonometry (02103)

Prerequisites: Geometry, Algebra II

Grade Level: 11-12

Credit – 1

Precalculus or Trigonometry required for Advanced Honors Endorsement

Trigonometry courses prepare students for eventual work in calculus and typically include the following topics: trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

Physical Science (03159)

Prerequisites: none

Grade Level: 9

Credit—1

Required for 9th graders

A class designed to introduce students to principles of physics and chemistry. Physical science concepts include motion, forces and energy. Forces in fluids, work, power and simple machines are studied. Lab procedures, weight, volume and density are topics covered. The periodic table, atoms, elements and chemical reactions, acid and bases, and solutions are topics covered.

Biology I (03051)

Prerequisites: none

Grade Level: 10

Credit—1

Required for 10th graders

It is a yearlong study of the life from the simple cells to the complex organism, humans. Student will start by learning the basic structure and function of cells, which is the basis of all of biology. Microorganisms, protists, plants and animals will be studied in detail. The passing on of traits to future generations will be studied in genetics. The human body will be studied and can be used as a prerequisite to Anatomy/Physiology. Ecology shows that all aspects of life, along with the chemical and earth science, are connected with nature.

A total of 3 credits of Lab Science is required for the basic diploma, Advanced and Advanced Career Endorsement. A total of 4 credits of science is required for the Advanced Honors Endorsement.

Biology II (03052)

Prerequisites: Biology

I Grade Level: 11-12

Credit--1

Biology II is a combination of Microbiology – the study of micro-organisms, (viruses, bacteria, protists, and fungi) Zoology – study of animals from sponges to mammals, and Genetics – the study of traits passed from generation to generation.

Chemistry

(03101)

Prerequisites: None

Grade Level: 11-12

Credit--1

This course will focus on the chemical principles that need to be learned before a student can continue in a science curriculum. The students will be expected to use the basics of mathematics to predict the amounts of chemical used or produced in the study of matter. It relies heavily of the usage of mathematics especially trigonometry. Chemistry or Physics is required for the Advanced Honors Endorsement.

Physics (03151)

Prerequisites: Geometry, Algebra II

Grade Level: 11-12

Credit--1

In Physics, we begin with measurement and the representation of data. Next we will move into the study of motion and forces. Vectors are a very important topic that will be covered in this section. Within this section we will also learn and derive several Kinematic Equations which will help to determine different aspects of motion and force. The fore-mentioned topics will make up the majority of the first semester of course work. Second semester we will move into topics such as work, momentum and circular motion. Finally, thermodynamics, waves, sound, and light are studied. The purpose of this course is to prepare students for future course work in a college physics class. The concepts within this class deal with real life situations and can be complex at times. Physics class is a great way to develop deductive and analytical reasoning skills. Physics or Chemistry is required for the Advanced Honors Endorsement.

Anatomy/Physiology (03053)

Prerequisites: Biology 1

Grade Level: 11-12

Credit—1

This college preparatory course entails detailed study of the human body. Students taking this course will be expected to learn and apply appropriate terminology, label and identify numerous anatomical structures, and gain an understanding of the functions of the body systems.

Ecology (03003)

Prerequisites:

None Grade Level:

11-12 Credit--1

This course is an advancement of general ecology. Students will investigate human impact on plants, animals, and other factors in the environment. They will do water quality tests, plant adaptations to stress, advancement of plants and animals over earth's history. Animal interactions with each other and with other populations in their community will also be studied along with various other aspects to ecology.

Robotics (21009)

Prerequisites: None

Grade Level: 9-12

Credit -1

This class does not count as a lab science.

The Introduction to Robotics is a hands-on, robotics based course that will use the TETRIX® Prime robotics platform to introduce students to the world of robotics and automation through a series of real world problem solving challenges. Students enrolled in Introduction to Robotics will be exposed to a variety of high demand STEM (science,

technology, engineering, and mathematics) careers while developing skills in areas of design, assembly, modification, programming and operation of a robotics system.

Physical Education

Health and Physical Education (08001/08051)

Prerequisites: None

Grade Level: 12

Credit—1

Required for the basic diploma and all the endorsements.

Health is a class, which runs in accordance with the state content standards. Health is a class about general everyday health issues and concerns. The class will discuss daily hygiene habits, AIDS, STD's, First Aid, CPR, and other health issues and concerns of today. This class is set in the classroom. Tests will be given over all materials covered. Each student will also be expected to obtain CPR training and certification. A half credit of Health is required.

Physical Education is a class, which runs in accordance to the state content standards. PE is a class where students will do many lifetime activities, for example, golf, tennis, softball, bowling, and volleyball to name a few. The class will also incorporate weight lifting and general biomechanics studies. The students will be expected to work on general motor skills, and the class will be expected to work on coordination skills. Coaching skills and techniques will also be a component of this class. The class will assist each student in understanding the importance of utilizing physical activity over their lifetime. A half credit of Physical Education is required for graduation.

Individual/Dual Sports (08003)

Prerequisites: None

Grade Level: 9-12

Credit - .5

This course provides students with knowledge, experience, and an opportunity to develop skills in more than one individual or dual sport (such as tennis, golf, badminton, jogging/running, racquetball, and so on).

Weight Training (08009)

Prerequisites: None

Grade Level: 9-12

Credit - .5

Weight Training courses help students develop knowledge and skills with free weights and universal stations with emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.

Social Science Classes

Psychology (04254)

Prerequisites: none

Grade Level: 11-12

Credit--.5

This class will allow the students to explore the basics of psychology and gain an understanding of them. The course will focus on defining psychology, psychological methods, biology and behavior, sensation and perception, consciousness and diversity, learning skills, memory skills, thinking and learning, intelligence, infancy-childhood-adolescence-adulthood, motivation, emotion, theories of personality, psychological tests, psychological disorders, and methods of therapy

Government (04151)

Prerequisites: none

Grade Level: 12

Credit—1

Required for the basic diploma and all endorsements.

Government is yearlong required classes for seniors.. We study the Amendments and all aspects of the government and how it functions and the basic fundamentals of government. We take a class trip to Pierre to the capital to observe the House of Representatives and the Senate. We also go to observe the Supreme Court in action usually in Vermillion or Yankton.

Geography (04001)

Prerequisites: none

Grade Level: 9

Credit--.5

Credit—1

Required for the basic diploma and all endorsements.

Geography is a required class for freshman. It is a semester long class. We will study all the continents and be able to locate the countries on a map. One requirement is that all students will make a flat map of the world and take a test over it. We will do reports over countries also.

World History (04051)

Prerequisites: none

Grade Level: 9

Credit--.5 Credit—

1

Required for the basic diploma and all endorsements.

World History is organized by units, chapters, and sections, 12 to 16 chapters, these chapters provide the students with various topics on world history. We try to design the class so that it gives the students the widest horizon of world history starting from the earliest times to near present. We hope to learn about the lives of people in ancient times how they lived their lives. We try to give a solid base on their political, economic, social and cultural history. We usually find that the first few chapters deal with material we have learned from the church. WE do all the people, places, terms and questions at the end of the chapters as well as the review sections.

US History (04101)

Prerequisites: none

Grade Level: 11

Credit—1

Required for the basic diploma and all endorsements.

The history class examines the major events in American history from the nations beginning to the present day. We try to give an in depth coverage of the 20th century. We want to give the students a strong understanding of American History and their place in it. The book helps explain the whole story of the US and gives a multi-cultural perspective as to the many important events that have taken place in the US. We try to put special emphasis on the wars and try to bring in speakers whenever possible. We do branch out and do a unit on South Dakota, which covers a wide variety of topics. Add background knowledge of history and identify some of the events that have an impact on day-to-day living. We also hope to develop a sense of pride in being an American citizen, SD citizen as well as a student in Menno.

Vocational Classes

Student Aide (22055)

Prerequisites: Student must be on track to graduate, must have at least a 2.4 Cumulative GPA, and must get permission from a teacher in advance to be their student aide.

Appropriate signatures on form required.

Grade Level: 11-12

Credit--.25

This course is intended for upper classman to work closely with a teacher in our school. Students will assist teachers in basic ways in their classrooms or during a teacher's prep period: making copies, assisting students if necessary, assisting in lessons, and assisting in clean up. The teacher will have meaningful daily work for their student aides. The purpose of the class is to have students see and understand the work of educators in the district at a specific grade level. This course is worth .25 credits each semester. Minimal placements are allowed each semester.

Work Study (80018)

Prerequisites: Employability

Grade Level: 12

Credit--.5

With the permission of the school administrator and employer, a senior may do an internship with a business in Menno. The business may not be owned by immediate family. The student must interview for the position. They must also follow the attendance rules of the school. The student will earn .5 credit.

Senior Experience (80019)

Prerequisites: none

Grade Level: 12

Credit – .5

Senior Experience is based on a personal proposal that requires students to demonstrate not only what they know but what they can do. Students will be expected to conceive a plan of action that incorporates the following four elements: a product, research component, portfolio and presentation. Capstone: Senior Experience calls upon students to use skills they have acquired and practiced throughout formal education. It will take them out of their comfort zones, preparing them for life beyond high school.

Dual Credit (99999)

Prerequisites: Determined by the post-secondary institution

Grade Level: 11-12

Credit--.5

Juniors and seniors may take college or technical institute classes while in high school at a reduced tuition fee. To take university classes, a senior must have a GPA of at least a 3.25 or rank in the top half or an ACT composite of at least a 21. Juniors must have a GPA of at least a 3.5 or rank in the top one third or have an ACT composite of at least a 24. For technical institutes, seniors must have at least a GPA of 2.5 and juniors a 3.0.