

**SOUTH HEART  
HIGH SCHOOL  
CURRICULUM GUIDE**

**2018-2019**

**(701) 677 - 5671  
310 4<sup>TH</sup> STREET NORTHWEST  
SOUTH HEART, ND 58655**

**“LEARNERS FOR LIFE”**

# High School Graduation Requirements

Graduation requirements are set by the North Dakota Department of Public Instruction and the South Heart Public School Board. Admission requirements for post-secondary institutions in North Dakota are determined by the State Board of Higher Education.

The current requirements for graduation and the recommended list of courses needed to attend one of the State Universities are listed below. To obtain a North Dakota Diploma, you must acquire 22 credits.

- 4 units of English Language Arts
  - From a sequence that includes literature, composition, and speech.
- 3 units of Math
- 3 units of Science
  - Must include 1 unit Physical Science;
  - 1 unit Biology; AND
  - 1 other unit of science.
- 3 units of Social Studies
  - 1 unit of U.S. History
  - ½ unit U.S. Government and ½ unit Economics; OR
  - 1 unit of Problems of Democracy AND
  - 1 other unit of Social Sciences
- 1 unit of Physical Education OR
  - ½ unit Physical Education AND
  - ½ unit Health
- 3 units of:
  - Foreign Languages
  - Native American Languages
  - Fine Arts OR
  - Career and Technical Education
- 5 additional units of credit

# SAMPLE FOUR-YEAR OUTLINES

## College Preparatory

### Freshman

English I  
Algebra I  
Physical Science  
Business Fundamentals  
Computer App I  
Electives

### Sophomore

English II  
Geometry  
Biology  
World History  
Health  
Computer App II  
Electives

### Junior

English III  
Algebra II  
Chemistry  
US History  
Electives

### Senior

AP English  
College Algebra/Trigonometry  
Problems of Democracy  
Advance Biology/Physics  
Electives

## General Education

### Freshman

English I  
Prealgebra  
Physical Science  
Business Fundamentals  
Computer App I  
Electives

### Sophomore

English II  
Algebra I  
Biology  
World History  
Health  
Computer App II  
Electives

### Junior

English III/Developmental Read & Write  
Applied Geometry  
Science Electives  
US History  
Electives

### Senior

English III/Developmental Read & Write  
Math Elective  
Problems of Democracy  
Science Electives  
Electives

# COURSE DESCRIPTIONS

## Career and Technical Education

Agriculture .....	5
Business Education .....	8
Family and Consumer Science .....	10
Health Science Education .....	13
Information Technology .....	14
Computer Education .....	14
Fine Arts .....	15
Foreign Languages .....	16
Language Arts (English) .....	17
Mathematics .....	20
Physical Education .....	23
Science .....	24
Social Studies .....	27

# CAREER AND TECHNICAL EDUCATION

## Agriculture

### **Exploring Ag (01005)**

Grade Level: 8

Credit: N/A

Duration of Class: One Semester

Format: Classroom/Lab

Description: An introductory exploration of agriculture. Learning experiences involving agricultural activities such as experimenting, designing, constructing, evaluating and using tools, machines, materials and other processes that provide opportunities for creativity, problem solving, and leadership development

### **Vocational Agriculture I: Introduction to Agriculture (01011)**

Grade Level: 9

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: The diversity and opportunities of agri-business and agri-science will be explored in this class. Leadership, parliamentary procedure, introduction to wood working and gas welding, and study skills will be emphasized. Careers relating to agri-science and agri-business will be explored.

### **Vocational Agriculture II: Foundations of Agriculture (01012)**

Grade Level: 10

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: To provide the student with basic agricultural knowledge so he/she may select an area of specialization; and to begin developing skills and competencies for employment in agricultural occupation. A broad program of plant and animal science, agricultural mechanics, agribusiness, natural resources, leadership development.

### **Vocational Agriculture III (01073)**

Grade Level: 11

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: This course is designed to develop competencies in the area of safety; selection and use of tools; planning and building projects and construction of agricultural structures, including the use of electrical circuits, plumbing, concrete and masonry; and employable skills.

### **Vocational Agriculture IV (01074)**

Grade Level: 12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: This course is designed to develop competencies in the areas of welding; small gasoline engine service and repair; maintenance procedures; irrigation system repair; refrigeration; new and emerging technologies; financial management skills; and employable skills.

### **Welding: Agricultural Welding & Fabrication (01046)**

Grade Level: 11-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes.

### **Small Animal Care (01066)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: Students learn how to care for and manage small animals, focusing on instructional areas in animal health, nutrition, management, reproduction, and evaluation. Course provides activities to foster leadership development.

### **Agriscience Technology I (01021)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: Agriscience Technology courses integrate biological and technological concepts with principles of agriculture. Courses are designed in sequences to provide experiences in the subject matter. Units are selected to develop knowledge and skills pertaining to nutrition, reproduction, diseases, breeding, genetics, anatomy, and physiology in animals and plants. Genetic engineering, biotechnology, plant propagation techniques, agricultural production technologies, marketing technologies, aquaculture, animal health, and small animal care are examples of units that may be taught.

### **Botany/Horticulture Science I (01053)**

Grade Level: 10-12

Credit: .5 Credits

Duration of Class: One Semester

Format: Classroom/Lab

Description: These courses prepare students to produce greenhouse/nursery plants and to maintain plant growth and propagation structures. Topics to be covered include: soils, plants, plant identification, and plant entomology. Courses examine the importance of plant cell structures, functions of cells, plant processes, nonvascular plants, vascular plants, roots, stems, leaves, flowers, and reproduction of plants. Students may be introduced to the biological, environmental, conservation, and ecological concepts encountered in our environment. Landscape design units will prepare students to design, construct, and maintain planted areas and devices for the beautification of home grounds and other areas of human habitation and recreation. These courses will reinforce and extend students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Leadership development and supervised agricultural experience programs are also an integral part of this course.

### **Livestock Production (01061)**

Grade Level: 11-12

Credit: .5 Credits

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course is designed to prepare students for careers in the field of animal science and production in species including, but not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry. The student will demonstrate technical skills relating to the interrelated human, botanical, scientific, and technological dimensions of animal systems and be able to assess the importance of the United States impact on world commodity markets while applying the principles of livestock breeding and nutrition in predicting the impact of current advances in genetics. The student is expected to describe common veterinary procedures and skills, practice proper animal restraint techniques, demonstrate identification techniques, and demonstrate effective management strategies. The student will learn the anatomy and physiology related to nutrition, reproduction, health, and management of domesticated animals while understanding the nutritional requirements of ruminant and non-ruminant animals. The student is expected to discuss feeding practices and feed quality issues, explain animal genetics and reproduction, and research current and emerging technologies in animal reproduction. The student identifies animal pests and diseases and methods of disease control, treatment, and prevention. The student knows the factors impacting commodity prices and costs.

# Business Education

## **Word Processing (14096)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Students in Word Processing will use word processing software to create and edit documents such as business letters, envelopes, labels, flyers, reports and newsletters.

Improved productivity will be developed by using timesaving shortcuts including templates, merging, tables, and key commands. Students will continue to practice formatting, editing, composition and proofreading.

## **Spreadsheets (14025)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Using different software packages, telecommunications, and business software.

Applying computer and software knowledge to produce business documents, solve problems, and complete projects. Develop written communication skills necessary for successful career development.

## **Desktop Publishing (14098)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: This course introduces students to the process of creating professionally designed documents. A specialized computer software program is used to enable students to create projects such as newsletters, brochures, and business cards, including pictures, graphics and importing text documents.

## **Business Fundamentals (14230)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Students will be introduced to the world of business and prepare for the economic roles of consumer, worker, and citizen. Topics include entrepreneurial concepts, characteristics of business organizations, business opportunities, and entrepreneurial careers, projects, and simulations.

### **Entrepreneurship (14111)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: The course aims to acquaint students with challenges of starting a new business. Some topics covered will include what is entrepreneurship, your potential as an entrepreneur, recognizing opportunity, marketing, and type of business ownership. Students will also be able to investigate and understand what is required in setting up a business.

### **Accounting I (14010)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Students will learn fundamentals of accounting principles that include: terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting.

### **Accounting II (14011)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Students will continue to learn the fundamental concepts of accounting. Topics covered include terminology, accounting cycle, basic concepts, financial statements and roles of accountants.

### **Multimedia (14099)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Students will use digital images and videos to create meaningful documentation, production, and presentations. The topics of image-editing, animation, file compression, digital audio/video editing, and planning for multimedia applications will also be covered.

### **Web Design (14022)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/ITV

Description: The course is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create, and maintain quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images.

### **Geographic Information Systems (274009)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/ITV

Description: Students will have the opportunity to gather technical skills in the areas of geographic information systems, remote sensing, and global positioning systems. Students will learn the basic ESRI ArcView interface in the context of local and global problems.

## Family and Consumer Sciences

### **Family and Consumer Science (09006)**

Grade Level: 7

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: FACS 7 will focus on leadership development through FCCLA, family relationships, and communication skills. Students will examine their own eating habits and how nutrition affects health. Students will prepare nourishing foods in class.

### **Family and Consumer Science I (09022)**

Grade Level: 9

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: To introduce students to basic concepts in all areas of Family and Consumer Sciences. This course may include: availability of personal resources\*\*; organization of resources to provide for needs; making consumer decisions; creation of personal living environment; developing satisfying interpersonal relationships; understanding and caring for children; meeting personal nutritional needs; managing food resources; maintaining good health; clothing and textile selection, care, and construction; contributing to satisfying and family life; career orientation and occupational information; work readiness skills; leadership development.

### **Family and Consumer Science II (09023)**

Grade Level: 10

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: To provide students with experiences in all areas of Family and Consumer Sciences at a more advanced level than in Family and Consumer Sciences I. The course may include: self-development; multiple roles of individuals in contemporary society; finances and economic interdependence\*\*; housing to meet lifestyle and family goals; lifestyle and parenting decisions; family meal choices at home and away; influences of nutrition on health and disease; personal and family clothing needs; societal and environmental impacts of personal decisions; career information, exploration and planning; work readiness skills; leadership development.

### **Family and Consumer Science III (09024)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: To provide specialized experiences that will enable advanced students to plan and prepare for present and future personal and family needs. Course content should expand on the content areas from Family and Consumer Sciences II, and should be determined by the needs and interests of the students enrolled.

### **Independent Living (09025)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: To prepare students for responsibilities involved in becoming self-sufficient young adults preparing for life away from the parental home during or immediately following high school. Course content may include: living independently; supporting oneself; making financial decisions\*\*; making choices about housing, nutrition and food, clothing, transportation, health and wellness; using time to achieve personal goals; finding balance in life; current issues that affect personal decisions; societal and environmental impacts of personal decisions; sources of support and assistance in the community; leadership development.

### **Child Development (09026)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: To increase students' knowledge of how children grow and develop, and to foster acquisition of skills that promote healthy development of the individual. Content may include: processes in individual development; cultural and ethnic differences and similarities in child care; how children learn; age-appropriate activities for children; family development and preparation for parenthood; prenatal development; changing relationships within the family; current issues relating to children and families; sources of support and assistance; related careers; leadership development.

### **Textile and Clothing I (09027)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course introduces students to basic consumer skills regarding fabric, design, construction, and maintenance techniques. Instruction may include cost analysis, wardrobe planning, basic sewing and fiber terminology, equipment for hand and/or machine sewing, reading and using a pattern, and care and maintenance of fabrics and garments.

### **Textile and Clothing II (09029)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course provides students with knowledge and skills to identify and incorporate design details in garments or environmental textiles, assess and upgrade commercially produced patterns or products, and perform basic repairs and/or alterations. Lab experiences may include design and/or construction of one or more projects related to the concepts taught.

### **Food Prep I (09131)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: This introductory course will prepare students to make critical decisions about food that will contribute to their health and well-being of themselves, their families and their communities. The course may include basic food selection and storage, accurate and appropriate measuring, basic cooking terms and techniques, and working safely in the kitchen. Students will learn how to read food labels and how to apply them to their eating habits and their dietary needs. Lab experiences will focus on preparing and tasting a variety of foods.

### **Food Prep II (09135)**

Grade Level: 10-12

Credit: .5

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course will examine the nutritional needs of the individual, emphasizing the relationship of diet to health. Enhanced cooking terms and techniques, kitchen and meal management, time and resource management and food preparation techniques will be explored. This course may include food trends and lifestyle options such as organic foods, vegetarian diets, and convenience foods, eating out, lactose and gluten intolerance and nutrition supplements. Lab experiences will align with and enhance the course content using a variety of foods and preparation methods.

# Health Sciences

## **Health Careers I (07033)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: The Health Careers course is designed to assist students interested in the medical field in determining an occupation that will best suit their capabilities and interests. The program uses a competency based curriculum that is fundamental to a variety of careers in the health care industry. "CORE" knowledge and skills are introduced the first semester to the students as a foundation in such areas as; Medical Terminology, Anatomy and Related Disorders, Professional Standards, Safety, Monitoring Body Functions, Disease Prevention, CPR and First Aid Certification and Introduction to Health Careers. The second semester provides the students the opportunity to expand their skills and knowledge in specific areas of career interest. Career choices such as Physical Therapy, Occupational Therapy, Pharmacy, Optometry, Radiology, Respiratory Therapy, Medical Records and Secretarial, Dental Careers, Medical Lab, Medical Assisting, Child Care, Nursing, Nursing Assisting and others will be offered. Students may be placed in the community health care setting for on-the-job career experience any time after completion of the CORE segment. Emphasis on academics, professional development, leadership, and organizational skills are integrated throughout the curriculum.

## **Medical Terminology (07036)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: This class is designed to introduce students to the health information technology field. Students will learn prefixes, suffixes and root words for medical terms. This will include meanings, spellings and pronunciations. Emphasis is on building a working medical vocabulary based on body systems. Anatomy and physiology of major organs, pathological conditions, laboratory studies, clinical procedures and abbreviations are studies for each body system. The student will also learn medical terminology as it relates to pathology, diagnostic, surgical, clinical and laboratory procedures, and common abbreviations and acronyms by body systems.

## **Prevention/Care of Athletic Injuries (07034)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: Provides the student with a background in athletic training and basic health care. The course emphasizes injury prevention, first responder management daily for athletic injuries and skills to fulfill the activities of daily living. Students will be able in one semester to complete the requirements to become a student athletic trainer.

### **Emergency Medical Services (07045)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: Students enrolling in this course will complete training in CPR for Health Care Providers and the Nationals Curriculum Emergency Medical Technician – Basic Course. The course prepares the student to respond to a wide range of emergencies such as heart attacks, auto accidents, and diabetic problems. Students participate in extensive “hands-on” practical sessions using modern prehospital care equipment under the instruction of paramedics from the local paramedic service. Students also receive exposure to a wide array of health careers through the use of professional guest speakers. Upon completion of the course, students are eligible for ND State licensure testing and they will have extensive knowledge and experience to aid them in choosing a health care career.

## Information Technology

### **Geographic Information Systems (274009)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/ITV

Description: Students will have the opportunity to gather technical skills in the areas of geographic information systems, remote sensing, and global positioning systems. Students will learn the basic ESRI ArcView interface in the context of local and global problems.

## COMPUTER EDUCATION

### **Computers 7: (03006)**

Grade Level: 7

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: Students will be able to format academic and business reports. A parallel focus is placed on the use of software commands and functions to create, edit, format, and manipulate documents, capitalizing on the power offered by word-processing software programs.

### **Computers 8: Computer Applications (03008)**

Grade Level: 8

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: This course is designed to teach students how to use the computer as a business and personal tool through the use of applications software. Appropriate software for word processing and spreadsheets will be used. Students gain understanding by completing basic tasks, practice learned skills and integrate software functions in real life learning projects.

# FINE ARTS

## **Art I (02020)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: This course is a foundation course that provides information about basic tools, skills, and techniques with the goal that students will gain the confidence to create original works. Areas of study will be drawing, painting, color theory, sculpture, and art history. Mediums will include graphite, charcoal, pen, markers, chalk pastels, oil pastels, ink, watercolor, and acrylic paints. The students will learn the design elements, drawing terms, facial/body proportions, linear perspective and vocabulary unique to art.

## **Art II: Fundamentals of Art (02021)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: Students will be learning design principles and be given the opportunity to continue developing their skills. The goal of this class is to create a series of work from concept sketches through the completion of the project with reflection to pull the work into a cohesive whole. Students will create works that have personal meaning while honing visual story telling skills to draw a viewer into their creation.

## **Choir (12040)**

Grade Level: 7-12

Credit: .5 Credit

Duration of Class: Full Year

Format: Classroom

Description: Vocal Music (chorus) provides the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

## **Band (12051)**

Grade Level: 7-12

Credit: .5 Credit

Duration of Class: Full Year

Format: Classroom

Description: Instrumental Music (Band) develops students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles).

### **Music Appreciation (12020)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Music Appreciation surveys different musical styles and periods with the intent of increasing students' enjoyment of musical styles and/or developing their artistic or technical judgment. Music History and Appreciation may also focus on developing an understanding of a particular style or period.

### **History of Rock and Roll (12020)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: History of Rock and Roll is a course to familiarize the student with the history of Rock music. Prominent players and groups of each era will be covered, as well as sociological, economic and cultural factors that shaped the many styles of Rock music.

### **Strings: Guitar (12057)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: The study, rehearsing, and performance of music for string instruments.

## **FOREIGN LANGUAGES**

### **Spanish I (06211)**

Grade Level: 9-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: Designed to introduce students to Spanish language and culture, Spanish I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

### **Spanish II (06212)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: Spanish II builds upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

## **LANGUAGE ARTS (ENGLISH)**

### **English 7 (05005)**

Grade Level: 7

Credit: N/A

Duration of Class: Full Year

Format: Classroom

Description: Language Arts grade 7 builds upon students' prior knowledge of grammar, vocabulary, spelling, word usage, and the mechanics of writing, and includes the four aspects of language use: reading, writing, speaking, and listening. Students experience the following literary forms: short stories, drama, poetry, and novel.

### **English 8 (05006)**

Grade Level: 8

Credit: N/A

Duration of Class: Full Year

Format: Classroom

Description: Language Arts grade 8 offers students a varied and sequential study of reading, writing, speaking, and listening. Students build on and develop reading skills through short stories, poetry, drama, novels, folk literature, and mythology. They develop writing skills through essays, stories, journals, and narratives. Students examine the structure of the English language and study grammar, usage, and mechanics. They develop speaking and listening skills throughout the coursework.

### **English I (05071)**

Grade Level: 9

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: English 9 builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, this course introduces and defines various genres of literature, with writing exercises often linked to reading selections.

### **English II (05072)**

Grade Level: 10

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: English 10 usually offers a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

### **English III (05073)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: English 11 continues to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

### **English IV (05074)**

Grade Level: 12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: English 12 blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

### **AP English (05580)**

Grade Level: 12

Credit: 1 Credit (College Credit Opportunity)

Duration of Class: Full Year

Format: Classroom

Description: The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

### **Developmental Reading/Writing (05011)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Developmental Reading/Writing offers students the opportunity to focus on their reading and writing skills. Assistance is targeted to students' particular weaknesses and is designed to bring students' reading comprehension and writing skills up to the desired level or to develop strategies to read and write more efficiently.

### **Speech I (05091)**

Grade Level: 12

Credit: .5 Credit (Dual Credit Offered)

Duration of Class: One Semester

Format: Classroom

Description: Speech I is an introduction to various types of oral communication situations: conversation, group discussion, and problem solving, interpersonal communication, nonverbal communication, and public address. Exploration and application of skills such as: gathering information, speech planning, speech organization, delivery techniques, listening skills, communication theory, and understanding persuasion.

### **Creative Writing (05042)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Creative Writing offers students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the course is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).

### **Modern Literature (05033)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Modern Literature has the same aim as general literature courses (to improve students' language arts and critical-thinking skills), focusing on the literature written during or reflecting a particular time period (such as the French Revolution, the 1960s, or the 20th century). Students determine the underlying assumptions and values within the selected works, reflect upon the influence of societal events and social attitudes, and compare the points of view of various authors. Oral discussion is an integral part of literature courses, and written compositions are often required.

### **Mass Media (05099)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Mass Media develops an awareness of the cultural and social impact of mass media and artistic features unique to each medium. It addresses mass media's influence on the communication process; electronic media (radio and television), printed media (newspapers and magazines), and the film as forms of entertainment and education.

### **Journalism (05081)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Journalism examines specific topics in journalism and broadcasting other than those already described. Journalism also works to produce the school yearbook.

## MATHAMATICS

### **Math 7 (11004)**

Grade Level: 7

Credit: N/A

Duration of Class: Full Year

Format: Classroom

Description: Math 7 emphasizes proficiency in skills involving numbers and operations; measurement; patterns; functions; algebraic formulas; geometry; and concepts of data analysis, including statistics and probability.

### **Math 8 (11005)**

Grade Level: 8

Credit: N/A

Duration of Class: Full Year

Format: Classroom

Description: Math 8 emphasizes proficiency in skills involving numbers and operations; measurement; patterns; functions; algebraic formulas; geometry; and concepts of data analysis, including statistics and probability.

### **Prealgebra (11030)**

Grade Level: 8

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Prealgebra increases students' foundational math skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

### **Algebra I (11031)**

Grade Level: 9-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Algebra I includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations

### **Geometry (11120)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Geometry, emphasizing an abstract, formal approach to the study of geometry, typically includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

### **Applied Geometry (11119)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Students will understand the basic facts and properties about points, lines, planes, parallel and perpendicular lines, triangles, polygons (with emphasis on quadrilaterals), circles, and three dimensional figures. Problem solving will involve the use of formulas, such as distance, midpoint, slope, area, volume, the Pythagorean Theorem, and trigonometric ratios. Emphasis will be on connecting geometry to real-world situations to solve problems, especially related to algebra, everyday life, navigation, architecture and art. Concepts will be studied using tools which may include the ruler, compass, protractor, calculator, and geometric software.

### **Algebra II (11032)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Algebra II topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. The course may introduce topics in discrete math, elementary probability and statistics; matrices and determinants; and sequences and series.

### **College Algebra (11034)**

Grade Level: 12

Credit: .5 Credit (Dual Credit Offered)

Duration of Class: One Semester

Format: Classroom

Description: Covering topics from both Algebra and Analytic Geometry, this course prepares students for eventual work in calculus. Topics include the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity; the polar coordinate system; equations and graphs of conic sections; rotations and transformations; and parametric equations.

### **Calculus (11061)**

Grade Level: 12

Credit: .5 Credits (Dual Credit Offered)

Duration of Class: One Semester

Format: Classroom

Description: Calculus includes the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and algebra).

### **Elementary Statistics (11150)**

Grade Level: 12

Credit: .5 Credits (Dual Credit Offered)

Duration of Class: One Semester

Format: Classroom

Description: Probability and Statistics introduces the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

### **Trigonometry (11160)**

Grade Level: 12

Credit: .5 Credit (Dual Credit Offered)

Duration of Class: One Semester

Format: Classroom

Description: Trigonometry prepares students for eventual work in calculus and typically includes 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.

### **Consumer Math (11145)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

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

## **PHYSICAL EDUCATION**

### **Physical Education 7 (08008)**

Grade Level: 7

Credit: N/A

Duration of Class: One Semester

Format: Gymnasium

Description: Physical Education (grade 7 only) typically involves the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe technique; teach the rules and conventions of games and sports; and explore the relationship between physical activity and health. Health topics (such as the effects of drugs and alcohol, sexual education, and healthy lifestyles) may also be included.

### **Physical Education 8 (08009)**

Grade Level: 8

Credit: N/A

Duration of Class: One Semester

Format: Gymnasium

Description: Physical Education (grade 8 only) typically involves the acquisition of knowledge and skills that provide the foundation for sport, a physically active lifestyle, and social development through physical activity. Activities typically include those that increase strength, endurance, and flexibility; reinforce safe technique; teach the rules and conventions of games and sports; and explore the relationship between physical activity and health. Health topics (such as the effects of drugs and alcohol, sexual education, and healthy lifestyles) may also be included.

### **Health 7 (18005)**

Grade Level: 7

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: Students will learn how to maintain physical health by examining personal lifestyle habits, physical fitness, sports and conditioning, and body systems. Students will learn to strengthen mental and social health by learning about the consequences of alcohol and tobacco use.

### **Health 8 (18005)**

Grade Level: 8

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: Students will learn how to maintain physical health by examining personal lifestyle habits, physical fitness, sports and conditioning, and body systems. Students will learn to strengthen mental and social health by learning about the consequences of alcohol and tobacco use.

### **Health (08010)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The course may also include brief studies of environmental health, personal development, and/or community resources.

### **General Physical Education (08030)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Physical Education provides students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

### **Weight Training (08040)**

Grade Level: 9-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

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

## **SCIENCE**

### **Life Science (13006)**

Grade Level: 7

Credit: N/A

Duration of Class: Full Year

Format: Classroom/Lab

Description: Life Science covers the basic principles of life and life processes. These topics may include cells, species, ecosystems, reproduction, genetics, or other topics consistent with state academic standards for life science.

### **Earth Science (13008)**

Grade Level: 8

Credit: N/A

Duration of Class: Full Year

Format: Classroom/Lab

Description: Earth Science covers basic principles of earth and space science: astronomy, meteorology, ecology, geology and paleontology, and experimental activities.

### **Physical Science (13030)**

Grade Level: 9

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: Physical Science involves the study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.

### **Biology (13020)**

Grade Level: 10

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: Biology is designed to provide information regarding the fundamental concepts of life and life processes. This course includes (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

### **Chemistry (13031)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: Chemistry involves studying the composition, properties, and reactions of substances. This course typically explores such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

### **Advanced Biology (13029)**

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: Usually taken after a comprehensive initial study of biology, Advanced Biology covers biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms.

### **Physics (13042)**

Grade Level: 12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

### **Wildlife Biology: Applied Biology/Chemistry (13034)**

Grade Level: 12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom/Lab

Description: Applied Biology/Chemistry integrates biology and chemistry into a unified domain of study and presents the resulting body of knowledge in the context of work, home, society, and the environment, emphasizing field and laboratory activities. Topics include natural resources, water, air and other gases, nutrition, disease and wellness, plant growth and reproduction, life processes, microorganisms, synthetic materials, waste and waste management, and the community of life.

### **Human Anatomy (13021)**

Grade Level: 11-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: Human Anatomy (Science) presents an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems, such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems.

### **Ecology (13110)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: Ecology provides students with a basic understanding of living things. Topics covered may include ecology and environmental problems such as overpopulation and pollution as well as cells, types of organisms, evolutionary behavior, and inheritance.

### **Astronomy (13061)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: Astronomy offers students the opportunity to study the solar system, stars, galaxies, and interstellar bodies. This course usually introduces and uses astronomic instruments and typically explores theories regarding the origin and evolution of the universe, space, and time.

### **Meteorology (13064)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom/Lab

Description: Meteorology examines the properties of the earth's atmosphere. Topics usually include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes and weather forecasting.

## **SOCIAL STUDIES**

### **Geography 7 (15007)**

Grade Level: 7

Credit: N/A

Duration of Class: Full Year

Format: Classroom

Description: Geography provides an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

### **North Dakota Studies 8 (15007)**

Grade Level: 8

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: North Dakota Studies examines the history, politics, economics, society, and/or cultures of the state in the United States. This course may focus primarily on the history of the state or may take an interdisciplinary approach to the contemporary issues affecting it.

### **United States History 8 (15007)**

Grade Level: 8

Credit: N/A

Duration of Class: One Semester

Format: Classroom

Description: U.S. History provides an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. This course typically includes a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. Content also includes the significance of the Declaration of Independence, the Constitution, and the Bill of Rights.

### **World History (15089)**

Grade Level: 9-12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: World History provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History may include geographical studies, but often these components are not as explicitly taught as geography.

### **United States History (15085)**

Grade Level: 11

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: U.S. History provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. This course typically includes a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

### **Problems of Democracy (15201)**

Grade Level: 12

Credit: 1 Credit

Duration of Class: Full Year

Format: Classroom

Description: Principles of Democracy combine a study of the structure of national, state, and local U.S. government with an overview of the principles of market economics. Course content may include contemporary U.S. issues. The purpose of this course is to prepare students to perform effectively as informed citizens. Students must read the Declaration of Independence, the United States Constitution, and the Bill of Rights.

### **Criminal Law: Law and Justice in North Dakota (15118)**

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Description: Law & Justice courses examine the workings of the U.S. criminal and civil justice systems, including providing an understanding of civil and criminal law and the legal process, the structure and procedures of courts, and the role of various legal or judicial agencies.

Although this course emphasizes the legal process, it may also cover the history and foundation of U.S. law (the Constitution, statutes, and precedents). Course content may also include contemporary problems in the criminal justice system.

### **Psychology (15120)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Psychology introduces students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

### **Sociology (15130)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Sociology introduces students to the study of human behavior in society. This course provides an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

### **North Dakota Studies (15401)**

Grade Level: 10-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: North Dakota Studies courses examine the history, politics, economics, society, and/or cultures of the state in the United States. This course may focus primarily on the history of this state or may take an interdisciplinary approach to the contemporary issues affecting it.