

# SOUTH HEART HIGH SCHOOL CURRICULUM GUIDE

2021-2022

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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

# North Dakota State Scholarship Requirements

The six items below are Common Eligibility requirements for both the Academic and CTE Scholarship Programs – the student must complete all of the six following requirements for either scholarship.

Check the boxes below as the six common eligibility requirements are met.

- 1. North Dakota resident.
- 2. Graduate from a high school in North Dakota, from a public high school in a bordering state (according to provisions set forth in ND Century Code 15.1-29), from a nonpublic high school in a bordering state while the student resides with a custodial parent in ND (NDCC 15.1-21-02.6), or completes a program of home education supervised in accordance with NDCC chapter 15.1-23.
- 3. Complete the diploma requirements from sections 1-7 listed on page 1 (NDCC 15.1-21-02.2).
- 4. Obtain a grade of at least "C" in each unit OR ½ unit required by each respective scholarship.
- 5. Obtain a cumulative grade point of at least a 3 on a 4.0 scale based on the 22 units required by ND for high school graduation, including specific scholarship course requirements. The GPA must be rounded to the nearest hundredth for eligibility purposes.
- 6. Complete 1 unit of algebra II.

## ND Career and Technical Education Scholarship Eligibility Requirements

Check the boxes below as the CTE Scholarship eligibility requirements are met. Transfer information to the first page.

In addition to the common eligibility requirements listed above, the student must also complete the following:

- 4 units of career and technical education in which 2 units must be from a coordinated plan of study recommended by the ND Dept. of Career & Technical Education. Coordinated Plans of Study may be viewed at: <http://www.nd.gov/cte/programs/career-dev/plans-of-study.html>

List the Name of the Coordinated Plan of Study: \_\_\_\_\_

- 1 unit selected from foreign languages, Native American languages, American Sign Language, fine arts, or career and technical education
- Receive a composite score of at least 24 on an ACT, or a score of at least '5' on each of the three designated WorkKeys assessments listed below. (*Deadline is the March ACT national test date from senior year.*)

List the ACT Composite Score

OR

List the 'Level Score' for each WorkKeys assessments

ACT Composite Score

<input type="text"/>	Applied Math score
<input type="text"/>	Graphic Literacy score
<input type="text"/>	Workplace Documents score

## ND Academic Scholarship Eligibility Requirements

Check the boxes below as the Academic Scholarship eligibility requirements are met. Transfer information to the first page.

In addition to the common eligibility requirements listed above, the student must also complete the following:

- 1 unit of mathematics for which algebra II is a prerequisite
- 2 units of the same foreign language; the same Native American language; American Sign Language; or career and technical education from a coordinated plan of study
- 1 unit selected from foreign languages; Native American languages; American Sign Language; fine arts; or career and technical education
- 1 unit of an advanced placement course and examination; or ½ unit of a dual credit course; or 1 unit of an early entrance college course from a college which has a physical presence in North Dakota
- Receive a composite score of at least 24 on an ACT (*Deadline is the March ACT national test date from senior year.*)

*\*Any ACT tests taken later than the deadline have no guarantee that the results will be back by the June 1 deadline. Any official results for ACT tests taken after the March deadline must be sent to NDDPI by the student.*

Updated 09/15/2017

# SAMPLE FOUR-YEAR OUTLINES

## College Preparatory

### Freshman

English I  
Algebra I  
Physical Science  
Business Fundamentals  
Word Processing  
ND Studies  
FACS I or Ag Ed I  
Physical Education/Weights  
Band and/or Choir

### Sophomore

English II/Speech  
Geometry  
Biology  
World History  
Health  
Spreadsheets  
FACS II or Ag Ed II  
Band and/or Choir  
Physical Education/Weights

### Junior

Honors English III  
Algebra II  
Chemistry  
Honors US History I (Dual Credit)  
Honors US History II (Dual Credit)  
Band and/or Choir

### Senior

AP English  
College Algebra/Elementary Statistics (Dual Credit)  
Trigonometry/Calculus (Dual Credit)  
Problems of Democracy (Dual Credit)

## General Education

### Freshman

English I  
Prealgebra  
Physical Science  
Business Fundamentals  
Word Processing  
ND Studies  
FACS I or Ag Ed I  
Physical Education/Weights  
Band and/or Choir

### Sophomore

English II/Speech  
Algebra I  
Biology  
World History  
Health  
Spreadsheets  
FACS II or Ag Ed II  
Band and/or Choir  
Physical Education/Weights

### Junior

English III  
Applied Geometry/Consumer Math  
Wildlife Biology/Ecology  
US History  
Band and/or Choir

### Senior

English IV  
Problems of Democracy

# COURSE DESCRIPTIONS

## Career and Technical Education

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# CAREER AND TECHNICAL EDUCATION

## Agriculture

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

Grade Level: 7/8

Credit: N/A

Duration of Class: One Quarter

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: .5 Credit/semester

Duration of Class: Full Year

Format: Classroom/Lab

Description: This applied course is designed to introduce students to agriculture, its applications, and leadership development as the core foundation of the Agriculture Education program. Individual units will familiarize the student with: basic mechanical theory and skills –emphasis will be placed on safety and proper use of tools and equipment; principles of evaluation and selection of beef, swine, sheep, horse, and dairy animals; soil and plant relationships that affect the production of food and fiber. Topics may include: soils, irrigation, land judging, plants, crop and weed identification, range management, horticulture, nursery, diseases, insects, and chemicals.

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

Grade Level: 10

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Classroom/Lab

Description: This applied course is designed to enhance student's perception of agriculture, its applications, and leadership development as the core foundation of the Agriculture Education program. Individual units will familiarize the student with: basic mechanical theory and skills –emphasis will be placed on safety and proper use of tools and equipment; principles of evaluation and selection of beef, swine, sheep, horse, and dairy animals; soil and plant relationships that affect the production of food and fiber. Topics may include: soils, irrigation, land judging, plants, crop and weed identification, range management, horticulture, nursery, diseases, insects, and chemicals

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

Grade Level: 11

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Classroom/Lab

Description: This course develops agricultural skills necessary for employment, entrepreneurship, or further education in agriculture and agricultural occupations. Units may include: crop and livestock production, farm business management, agribusiness, horticulture, natural resources, agricultural mechanics, aquaculture, and water management. Leadership development and supervised agricultural experiences will also be emphasized.

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

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course provides students in agriculture an opportunity to reinforce and extend understanding of applied mechanical applications. Students will be exposed to mechanical, electrical and thermal power that are associated with the field of agricultural welding. Applied activities develop an understanding and skill development in metal joining and fabrication processes. Instruction will prepare students to select, operate, repair, fabricate and maintain a variety of agricultural machinery and equipment. Processes covered may include: Oxyfuel Cutting/Heating/Welding, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux-cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Air-carbon Arc Cutting, Plasma Arc Cutting, Safety and Metal Fabrication. In addition, record keeping, communication skills, employability and human relation skills will be covered. Leadership development and Supervised Agricultural Experiences (SAE's) are also integral to this course.

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

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course is designed to teach students about the management of small animals, which may include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats. The student will understand the importance of responsible small animal ownership by explaining the domestication and use of small animals, the influence small animals and the small animal industry on society, and the hazards associated with working in the small animal industry (including transmittance of disease and handling of dangerous chemicals). The student will evaluate current topics in animal rights and animal welfare, thus understanding the care and management requirements for a variety of small animals and be able to discuss the physical characteristics for each species studied; list the breeds or types of each species; discuss the habitat, housing, and equipment needs for each; compare and contrast nutritional requirements; describe and practice common methods of handling; and use available laboratory equipment to perform procedure

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

Grade Level: 11-12

Credit: .5 Credit/semester

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.

### **Ag Mechanics I (01043)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: Agricultural Mechanics courses are designed to reinforce and extend students' understanding of applied mechanical applications by associating scientific principles and concepts with relevant applications in fields associated with mechanics. Students will be exposed to mechanical, fluid, electrical, and thermal power that are associated with the field of agriculture. Course sequence is designed to provide students with applied activities which may include: metal fusion (welding), structures, surveying, electrical wiring principles, agricultural power and equipment, plumbing, electric motors and controls, CNC, robotics, CADD, Lasers, GIS and GPS systems. Leadership development and supervised agricultural experiences are integral to these courses.

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

Grade Level: 11-12

Credit: .5 Credits/semester

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.

### **Equine Science I (01062)**

Grade Level: 11-12

Credit: .5 Credits/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course is designed to provide students with opportunities to learn, reinforce, apply, and transfer their knowledge and skills of animal systems (including, but are not limited to, horses, donkeys, and mules.) The student will analyze the selection of horses, how to provide proper nutrition using accepted protocols and processes, describe the anatomy and physiology of horses, and select equipment and facilities which demonstrate methods of handling and breeding horses safely. The student will compare and contrast issues affecting the industry and describe issues concerning biotechnology related to the equine field. The student will also learn the employability characteristics of a successful employee in the field of equine science by participating in laboratory-based, or other supervised, agricultural experiences, and learn from the challenging hands-on approach in equine activities.



# Business Education

## **Word Processing (14096)**

Grade Level: 9

Credit: .5 Credit/semester

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: 10

Credit: .5 Credit/semester

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.

## **Business Fundamentals (14230)**

Grade Level: 9

Credit: .5 Credit/semester

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.

## **Accounting I (14010)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom

Description: Students in Accounting I will learn the fundamentals of Accounting principles that include: terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting. Simulation packets are often integrated in the course.

## **Accounting II (14011)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom

Description: Students in Accounting II will continue learning the fundamental concepts of Accounting. Topics covered include terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting.

# Family and Consumer Sciences

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

Grade Level: 7/8

Credit: N/A

Duration of Class: One Quarter

Format: Classroom

Description: Course 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: .5 Credit/semester

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: .5 Credit/semester

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.

## **Food Preparation I (09131)**

Grade Level: 11-12

Credit: .5 Credit/semester

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 wellbeing 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.

### **Cultures & Cuisines (09136)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: This course will explore cultures in various parts of the world in relation to ethnic foods, food supply, preparation methods and traditions. Current, historical and futurist issues related to food patterns and the global society will be an integral component of the course which may include such topics as famine, contamination, religious rites and practices, celebrations and cultural cuisine. Labs will combine the familiar with the exotic to create foods of the world.

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

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

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.

### **Parenting (09130)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: To explore the parenting roles that most adults will assume at some time during their lives. Content may include: assessing readiness for parenthood; role clarification-mothers, fathers, and others; the finances of parenting; providing an environment for optimum child growth and development; family communication; stress and crisis in the family; special parenting situations — finding and assessing child care, the handicapped child, foster parenting, blended families, single-parent families, parenting as grandparents; current issues impacting on parents, children, and society; sources of support and assistance for parents and families; related careers; leadership development.

# Health Sciences

## **Medical Careers I (07033)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: ITV

**Description:** The Medical 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) DUAL CREDIT**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Spring

College Course: BOTE 171

College Credit Hours: 3 Credits

Format: Classroom

**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 studied 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: 11-12

Credit: .5 Credit/semester

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: 11-12

Credit: .5 Credit/semester

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.

### **Firefighter School (07999)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Online, face to face and on the job training

Description: Provides students with a regularly scheduled, supervised employment opportunity related to Health Career Occupations in order to develop and improve work skills. The employment must be preceded by, or concurrent with, classroom instruction related to the work experience, consistent with the student’s occupational goals, and related to the health program area. There shall be a training agreement among all partners to the work experience (school, employer, student, and parents/guardians) outlining the expectations of each party. The instructor shall also develop a specific training plan with the employer for each student placed. The training plan shall include provisions for assessment of student progress and for on-site visits by the instructor during the student’s placement. NOTE: Students must be at least 16 years old and may be paid a wage by the employer.

### **Certified Nurse Assistant (07999)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Online, face to face and on the job training

Description: Provides students with a regularly scheduled, supervised employment opportunity related to Health Career Occupations in order to develop and improve work skills. The employment must be preceded by, or concurrent with, classroom instruction related to the work experience, consistent with the student’s occupational goals, and related to the health program area. There shall be a training agreement among all partners to the work experience (school, employer, student, and parents/guardians) outlining the expectations of each party. The instructor shall also develop a specific training plan with the employer for each student placed. The training plan shall include provisions for assessment of student progress and for on-site visits by the instructor during the student’s placement. NOTE: Students must be at least 16 years old and may be paid a wage by the employer.

# COMPUTER EDUCATION

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

Grade Level: 7

Credit: N/A

Duration of Class: One Quarter

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 Quarter

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 (02021)**

Grade Level: 9-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Classroom/Lab

Description: Fundamental of Art provides students with the knowledge and opportunity to explore an art form and to create individual works of art. This course may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although this course focuses on creation, it may also include the study of major artists, art movements, and styles.

## **Art II, III (02020)**

Grade Level: 10-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Classroom/Lab

Description: Art focuses on drawing and painting. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, watercolor, tempera, oils, acrylics, and so on), but some courses may focus on only one medium.

## **Drawing (02025)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: Drawing focuses on drawing. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, and so on), but some courses may focus on only one medium.

## **Painting (02026)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: Painting focuses on painting. In keeping with this attention on two-dimensional work, students typically work with several media (such as watercolor, tempera, oils, acrylics, and so on), but some courses may focus on only one medium.

## **Sculpture (02029)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: One Semester

Format: Classroom/Lab

Description: Sculpture focuses on creating three-dimensional works. Students typically work with several media (such as clay, ceramics, wood, metals, textiles, and so on), but some courses may focus on only one medium.

**Choir (12040)**

Grade Level: 7-12

Credit: .5 Credit/semester

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/semester

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).

**Strings: Guitar (12057)**

Grade Level: 9-12

Credit: .5 Credit/semester

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: .5 Credit/semester

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: .5 Credit/semester

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).

## **American Sign Language (06315)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: ITV

Description: Designed to introduce students to American Sign Language and culture, American Sign Language I courses prepare students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing and reading), and presenting (signing) information on a variety of topics. They introduce the relationship among the practices, perspectives, and cultures of deaf people and communities.

# 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: .5 Credit/semester

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: .5 Credit/semester

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: .5 Credit/semester

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.

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

Grade Level: 11-12

Credit: .5 Credit/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: .5 Credit/semester

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.

### **Advanced Placement English (05580)**

Grade Level: 12

Credit: .5 Credit/semester (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.

### **Fiction (05039)**

Grade Level: 11-12

Credit: .5 Credit

Duration of Class: One Semester

Format: Classroom

Description: Fiction is the study of short stories and novels, point of view, plot, character, setting, and theme.

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

Grade Level: 10

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: 11-12

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).

### **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: .5 Credit/semester

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: .5 Credit/semester

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: .5 Credit/semester

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: .5 Credit/semester

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: .5 Credit/semester

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.

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

Grade Level: 10-12

Credit: .5 Credit/semester

Duration of Class: Full Year

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.

### **College Algebra (11034) DUAL CREDIT**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: MATH 103

College Credit Hours: 4 Credits

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

### **Elementary Statistics (11150) DUAL CREDIT**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Spring

College Course: MATH 210

College Credit Hours: 3 Credits

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) DUAL CREDIT**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: MATH 105

College Credit Hours: 3 Credits

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.

### **Precalculus (11181) DUAL CREDIT**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Spring

College Course: MATH 107

College Credit Hours: 4 Credits

Format: Classroom

Description: Precalculus combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Algebra topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity

## **Calculus (11061) DUAL CREDIT**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: MATH 165

College Credit Hours: 3 Credits

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).



# 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.

### **Individual and Dual Sports (08036)**

Grade Level: 11-12

Credit: .5 Credit/semester

Duration of Class: Full Year

Format: Classroom

Description: 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 (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.

### **Introduction to Coaching (08045)**

Grade Level: 11-12

Credit: .5 Credit

Duration of Class: One Semester

Format: ITV

Description: Introduction to Coaching focuses on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, sports nutrition and sports psychology, as well as safety in conditioning and cross-training. Students will learn effective communication, problem-solving, and decision-making skills. This course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics.

### **Sports Officiating (08046)**

Grade Level: 11-12

Credit: .5 Credit

Duration of Class: One Semester

Format: ITV

Description: In Sports Officiating, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, football, and tennis. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sports official plays in maintaining fair play.

# 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: .5 Credit/semester

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: .5 Credit/semester

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: .5 Credit/semester

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.

**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.

# 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: .5 Credit/semester

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: 11-12

Credit: .5 Credit/semester (Dual Credit Opportunity)

Duration of Class: One Semester

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.

### **US History (15085)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: HIST 103

College Credit Hours: 3 Credits

Format: Classroom

Description: A survey of American History - political, social, economic, cultural - from the Colonial Period to the Civil War, with emphasis on the English Colonial Experience, the American Revolution, the establishment of the Union, early reform movements, slavery, and the coming of the Civil War.

### **US History (15085)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: HIST 104

College Credit Hours: 3 Credits

Format: Classroom

Description: A survey of American History - political, social, economic, cultural - from the close of the Civil War to the contemporary period, with emphasis on the transformation of the United States into a modern industrial nation, the concerns of progressive America, and the emergence of the United States from economic disaster to become a powerful and prosperous country.

### **Introduction to American Government (15201)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: POLS

College Credit Hours: 3 Credits

Format: Classroom

Description: National government is emphasized. Topics include: political personalities, power, political socialization, current political and social issues, public opinion, the mass media, voting, campaigning, the Presidency, the Congress, the courts, the bureaucracy, and domestic and foreign policies

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

Grade Level: 12

Credit: .5 Credit/semester (Dual Credit Opportunity)

Duration of Class: One Semester

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.

### **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: 11-12

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: 9

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.

# Dual Credit Opportunities

\*\*Bank of North Dakota (BND) is accepting applications from eligible students for financial assistance to pay for dual credit courses. Funding may be limited. Applications will be considered by date submitted. Approved students may receive assistance for up to two (2) courses per academic school year.\*\*

## **Mathematics:**

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

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: MATH 103

College Credit Hours: 4 Credits

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

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

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Spring

College Course: MATH 210

College Credit Hours: 3 Credits

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)**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: MATH 105

College Credit Hours: 3 Credits

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.



### **Precalculus (11181)**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Spring

College Course: MATH 107

College Credit Hours: 4 Credits

Format: Classroom

Description: Precalculus combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Algebra topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity

### **Calculus (11061)**

College: Bismarck State College

Grade Level: 12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: MATH 165

College Credit Hours: 3 Credits

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).

## **Social Studies:**

### **US History (15085)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: HIST 103

College Credit Hours: 3 Credits

Format: Classroom

Description: A survey of American History - political, social, economic, cultural - from the Colonial Period to the Civil War, with emphasis on the English Colonial Experience, the American Revolution, the establishment of the Union, early reform movements, slavery, and the coming of the Civil War.

### **US History (15085)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: HIST 104

College Credit Hours: 3 Credits

Format: Classroom

Description: A survey of American History - political, social, economic, cultural - from the close of the Civil War to the contemporary period, with emphasis on the transformation of the United States into a modern industrial nation, the concerns of progressive America, and the emergence of the United States from economic disaster to become a powerful and prosperous country.

### **Introduction to American Government (15201)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Fall

College Course: POLS

College Credit Hours: 3 Credits

Format: Classroom

Description: National government is emphasized. Topics include: political personalities, power, political socialization, current political and social issues, public opinion, the mass media, voting, campaigning, the Presidency, the Congress, the courts, the bureaucracy, and domestic and foreign policies

## **Health Careers:**

### **Medical Terminology (07036)**

College: Bismarck State College

Grade Level: 11-12

Credit: .5 Credit/semester (High School Credit)

Duration of Class: One Semester

College Semester: Spring

College Course: BOTE 171

College Credit Hours: 3 Credits

Format: Classroom

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.

# North Dakota Center for Distance Education (Online Courses and Credit Recovery)



## High School Online Courses

Revised August 17, 2020

NDCDE.org

Phone: 701-298-4830

E-mail: [ndcde.enroll@k12.nd.us](mailto:ndcde.enroll@k12.nd.us)

### ADVANCED PLACEMENT

HCO3121B	AP Computer Science A, 1st Sem
HCO3122B	AP Computer Science A, 2nd Sem
HENS211B	AP English Language and Composition, 1st Sem
HENS212B	AP English Language and Composition, 2nd Sem
HSC3161B	AP Environmental Science, 1st Sem
HSC3162B	AP Environmental Science, 2nd Sem
HSS4221B	AP Human Geography, 1st Sem
HSS4222B	AP Human Geography, 2nd Sem
HSS4341B	AP Psychology, 1st Sem
HSS4342B	AP Psychology, 2nd Sem
HSS3541B	AP United States Government and Politics
HSS2621B	AP US History, 1st Sem
HSS2622B	AP US History, 2nd Sem

### AEROSPACE

HAV1011B	Aerospace: The Journey of Flight, 1st Sem
HAV1012B	Aerospace: The Journey of Flight, 2nd Sem
HAV1001B	Introduction to Careers in Unmanned Aircraft Systems
HAV1021B	Private Pilot: Ground I
HAV1022B	Private Pilot: Ground II
HAV1023B	Private Pilot: Ground III

### ART

HAR1271B	2D Studio Art
HAR1261B	3D Modeling
HAR3201B	Art in World Cultures
HAR2021B	Basic Drawing
HAR3031B	Beginning Painting
HAR2221B	Digital Art & Design
HAR2181B	Digital Photography I
HAR3182B	Digital Photography II
HAR2191B	Fashion and Interior Design
HAR2231B	Graphic Design, 1st Sem
HAR2232B	Graphic Design, 2nd Sem

### BUSINESS & MARKETING EDUCATION

HBU1261B	Accounting I
HBU1262B	Accounting II
HBU2321B	Basic Web Design
HBU1361B	Entrepreneurship 1a: Introduction
HBU2231B	Foundations in Personal Finance
HBU2131B	Hospitality & Tourism: Traveling the Globe
HBU1281B	Hospitality and Tourism 2a: Hotel and Restaurant Management
HBU3121B	International Business: Global Commerce in the 21st Century
HBU1201B	Introduction to Business

HBU1331B	Marketing Foundations 1a: Introduction
HBU1332B	Marketing Foundations 1b: Building Your Base
HBU1351B	Principles of Information Technology 1a: Introduction
HBU1352B	Principles of Information Technology 1b: Working with Computers
HBU5181B	Social Media: Our Connected World
HBU2141B	Sports and Entertainment Marketing

### COMPUTER EDUCATION

HCO1131B	Computer Programming, Robotics
HCO1211B	Cybersecurity 1a: Foundations
HCO1212B	Cybersecurity 1b: Defense Against Threats
HCO4171B	Foundations of Game Design 1a: Introduction
HCO4172B	Foundations of Game Design 1b: Storytelling, Mechanics, and Production
HCO1251B	Foundations of Programming
HCO1261B	Introduction to Programming 1a: Introduction
HCO1262B	Introduction to Programming 1b: Problem Solving through Programming

### CREDIT RECOVERY

HMA1561CRB	Algebra 1, 1st Sem
HMA1562CRB	Algebra 1, 2nd Sem
HMA1571CRB	Algebra 2, 1st Sem
HMA1572CRB	Algebra 2, 2nd Sem
HSC4371CRB	Biology, 1st Sem
HSC4372CRB	Biology, 2nd Sem
HPH4081CRB	Credit Recovery Health
HPH4091CRB	Credit Recovery PE 1
HSS1691CRB	Economics with Financial Literacy
HMA1551CRB	Geometry, 1st Sem
HMA1552CRB	Geometry, 2nd Sem
HEN1621CRB	Language Arts 9, 1st Sem
HEN1622CRB	Language Arts 9, 2nd Sem
HEN1631CRB	Language Arts 10, 1st Sem
HEN1632CRB	Language Arts 10, 2nd Sem
HEN2531CRB	Language Arts 11, 1st Sem
HEN2532CRB	Language Arts 11, 2nd Sem
HEN1571CRB	Language Arts 12, 1st Sem
HEN1572CRB	Language Arts 12, 2nd Sem
HSC3391CRB	Physical Science, 1st Sem
HSC3392CRB	Physical Science, 2nd Sem
HSS1881CRB	United States Government
HSS1871CRB	U.S. History, 1st Sem
HSS1872CRB	U.S. History, 2nd Sem
HSS1831CRB	World History, 1st Sem
HSS1832CRB	World History, 2nd Sem

### DUAL CREDIT

DSC1011B	Anatomy & Physiology, First Semester
DSC1012B	Anatomy & Physiology, Second Semester
DSC1021B	Biology, First Semester
DSC1022B	Biology, Second Semester
DMA1011B	College Algebra
DEN1011B	English 110
DEN1012B	English 120
DSS1011B	Introduction to Psychology
DGE1011B	Principles of Education and Training
DSS1021B	Sociology
DMA1021B	Trigonometry

### ENGLISH

HEN4111B	Creative Writing
HEN5401B	English Fundamentals: Writing
HEN2661B	Filmmaking Bootcamp
HEN3261B	Gothic Literature: Monster Stories
HEN1701B	Journalism 1a: Introduction
HEN1702B	Journalism 1b: Investigating the Truth
HEN1621B	Language Arts 9, 1st Sem
HEN1622B	Language Arts 9, 2nd Sem
HEN2631B	Language Arts 10, 1st Sem
HEN2632B	Language Arts 10, 2nd Sem
HEN3491B	Language Arts 11, 1st Sem
HEN3492B	Language Arts 11, 2nd Sem
HEN2571B	Language Arts 12, 1st Sem
HEN2572B	Language Arts 12, 2nd Sem
HEN5121B	Mythology and Folklore: Legendary Tales
HEN1691B	Public Speaking 1a: Introduction
HEN1692B	Public Speaking 1b: Finding Your Voice
HEN1671B	Reading and Writing for Purpose
HEN1561B	Reading Around the World
HEN1551B	Science Fiction Literature
HEN2461B	The Lord of the Rings: An Exploration of the Films and Their Literary Influences
HEN5431B	Theater Studies
HEN2421B	Theater, Cinema and Film Production

### FAMILY AND CONSUMER SCIENCE

HFC2201B	Child Development
HFC1211B	Culinary Arts 1a: Introduction
HFC1212B	Culinary Arts 1b: Finding Your Palate
HFC1191B	Culinary Arts 2: Baking, Pastry, and More!
HFC1221B	Early Childhood Education 1a: Introduction
HFC1222B	Early Childhood Education 1b: Developing Early Learners

HFC4111B	Nutrition
HFC4071B	Personal Management: Independent Living
HFC4121B	Real World Parenting
HFC2081B	Relationships

### GENERAL EDUCATION

HGE1121B	Augmented and Virtual Reality
HGE2031B	Careers in Criminal Justice
HGE1141B	E-sports & the History of Video Games
HGE1111B	Flying Cars & the Future of Transportation
HGE1131B	Introduction to Bitcoin and the Future of Money
HGE2021B	Introduction to Military Careers
HGE1081B	Introduction to the Internet of Things
HGE1151B	Introduction to Wall Street and Financial Careers
HGE1071B	Learning in a Digital World
HGE2051B	National Security
HGE2041B	Principles of Public Service: To Serve & Protect
HGE1091B	Robotics and Artificial Intelligence
HGE1011B	Thinking and Learning Strategies
HGE1101B	Wearable and Implantable Technology

### HEALTH CAREERS

HHC1121B	Allied Health Assistant 1a: Introduction
HHC1061B	Health Careers
HHC1111B	Health Science Foundations 1a: Introduction
HHC1112B	Health Science 1b: Professional Responsibilities
HHC1091B	Intro to Careers in Dentistry
HHC2011B	Intro to Nursing I
HHC2012B	Intro to Nursing II
HHC1101B	Medical Terminology 1a: Introduction
HHC1102B	Medical Terminology 1b: Discovering Word Foundations

### MATH

HMA1561B	Algebra 1, 1st Sem
HMA1562B	Algebra 1, 2nd Sem
HMA1571B	Algebra 2, 1st Sem
HMA1572B	Algebra 2, 2nd Sem
HMA1531B	Consumer Math, 1st Sem
HMA1532B	Consumer Math, 2nd Sem
HMA2491B	General Math, 1st Sem
HMA2492B	General Math, 2nd Sem
HMA1551B	Geometry, 1st Sem
HMA1552B	Geometry, 2nd Sem
HMA1541B	Prealgebra, 1st Sem
HMA1542B	Prealgebra, 2nd Sem
HMA2521B	Precalculus, 1st Sem
HMA2522B	Precalculus, 2nd Sem

# High School Online Courses

NDCDE.org

Phone: 701-298-4830

E-mail: ndcde.enroll@k12.nd.us

MUSIC	
HMU2061B	Beginning Piano
HMU2051B	Guitar I, 1st Sem
HMU2052B	Guitar I, 2nd Sem
HMU6041B	Music Appreciation: The Enjoyment of Listening

PHYSICAL EDUCATION AND HEALTH	
HPH3071B	Advanced PE I
HPH1181B	Drugs & Alcohol
HPH3101B	Exercise Science
HPH1171B	First Aid & Safety
HPH4061B	Fitness Fundamentals I
HPH3211B	Health and Personal Wellness
HPH1191B	Intro to Coaching
HPH3121B	Intro to Group Sports
HPH3131B	Intro to Individual Sports
HPH3141B	Running
HPH1201B	Sports Officiating
HPH3151B	Strength Training
HPH3161B	Walking Fitness

NELSON ACADEMY OF AGRICULTURE SCIENCES	
HAG2061B	Agribusiness I
HAG2062B	Agribusiness II
HAG2071B	Agricultural Careers
HAG1371B	Animal Science I
HAG1372B	Animal Science II
HAG2101B	Animal Science: Beef Production
HAG1381B	Animal Science: Poultry Production
HAG2111B	Animal Science: Sheep Production
HAG2121B	Animal Science: Swine Production
HAG1361B	Arc and Gas Welding Theory
HAG2131B	Crop Science
HAG2141B	Equine Science I
HAG2321B	Equine Science I: FFA and SAE
HAG2142B	Equine Science II
HAG2143B	Equine Science III
HAG2161B	Farm Business Management: Credit & Financing
HAG2181B	Farm Business Management: Financial Planning
HAG2151B	Farm Business Management: Introduction
HAG2191B	Farm Business Management: Production Decisions
HAG2211B	Greenhouse Technology I
HAG2212B	Greenhouse Technology II: Hydroponics

HAG2221B	Introduction to Agriculture
HAG2281B	Introduction to Agriculture: FFA and SAE
HAG2231B	Leadership
HAG2261B	Leadership: FFA and SAE
HAG2243B	Plant Science
HAG2301B	Plant Science: FFA and SAE
HAG1391B	Veterinary Assistant Certification I
HAG1392B	Veterinary Assistant Certification II
HAG2241B	Veterinary Science I
HAG2311B	Veterinary Science I: FFA and SAE
HAG2242B	Veterinary Science II

SCIENCE	
HSC2491B	Anatomy and Physiology 1a: Introduction
HSC2492B	Anatomy and Physiology 1b: Discovering Form and Function
HSC1501B	Astronomy 1a: Introduction
HSC1502B	Astronomy 1b: Exploring the Universe
HSC1521B	Biology, 1st Sem
HSC1522B	Biology, 2nd Sem
HSC2451B	Chemistry, 1st Sem
HSC2452B	Chemistry, 2nd Sem
HSC3071B	Entomology
HSC4221B	Forensic Science II: More Secrets of the Dead
HSC1471B	Forensics: The Science of Crime
HSC2411B	Introduction to Forestry & Natural Resources
HSC2401B	Introduction to Renewable Technologies
HSC2421B	Marine Science: Secrets of the Blue
HSC1431B	Meteorology
HSC3081B	Ornithology
HSC1511B	Physical Science, 1st Sem
HSC1512B	Physical Science, 2nd Sem
HSC1481B	Physics, 1st Sem
HSC1482B	Physics, 2nd Sem
HSC4091B	Wildlife Management

SOCIAL STUDIES	
HSS3811B	African-American History
HSS5431B	Alaska History
HSS4721B	American History, 1st Sem
HSS4722B	American History, 2nd Sem
HSS4441B	Anthropology I: Uncovering Human Mysteries
HSS2801B	Anthropology II: More Human Mysteries Uncovered

HSS4451B	Archaeology: Detectives of the Past
HSS4411B	Criminology: Inside the Criminal Mind
HSS1641B	Economics with Financial Literacy
HSS2481B	History of the Holocaust
HSS2761B	Human Geography: Our Global Identity
HSS1861B	Introduction to Philosophy: The Big Picture
HSS2771B	Introduction to Women's Studies: A Personal Journey Through Film
HSS4301B	Law & Order: Introduction to Legal Studies
HSS2841B	North Dakota Studies
HSS4311B	Personal Psychology I: The Road to Self Discovery
HSS4312B	Personal Psychology II: Living in a Complex World
HSS2781B	Social Problems I: A World in Crisis
HSS2791B	Social Problems II: Crisis, Conflicts & Challenges
HSS4401B	Sociology I: The Study of Human Relationships
HSS4402B	Sociology II: Your Social Life
HSS1881B	United States Government
HSS1821B	World History, 1st Sem
HSS1822B	World History, 2nd Sem
HSS4391B	World Religions: Exploring Diversity

TECHNICAL AND AGRICULTURE EDUCATION	
HTE4021B	Auto Fundamentals
HTE1131B	Biotechnology 1a: Introduction
HTE1132B	Biotechnology 1b: Unlocking Nature's Secrets
HTE3051B	Carpentry and Building Construction
HTE2121B	Concepts of Engineering & Technology
HTE2111B	Introduction to Manufacturing: Product Design & Innovation
HAG1351B	Principles of Agriculture, Food & Natural Resources
HAG3031B	Small Pet Care

WORLD LANGUAGE	
HHC1071B	American Sign Language 1a: Introduction
HHC1072B	American Sign Language 1b: Learn to Sign
HHC1081B	American Sign Language 2a: Communicating
HHC1082B	American Sign Language 2b: Advancing Communication Skills

HWL1211B	French I, 1st Sem
HWL1212B	French I, 2nd Sem
HWL1221B	French II, 3rd Sem
HWL1222B	French II, 4th Sem
HWL2141B	French III, 5th Sem
HWL2142B	French III, 6th Sem
HWL1191B	German I, 1st Sem
HWL1192B	German I, 2nd Sem
HWL1201B	German II, 3rd Sem
HWL1202B	German II, 4th Sem
HWL1231B	Latin I, 1st Sem
HWL1232B	Latin I, 2nd Sem
HWL1241B	Latin II, 3rd Sem
HWL1242B	Latin II, 4th Sem
HWL1251B	Spanish I, 1st Sem
HWL1252B	Spanish I, 2nd Sem
HWL1261B	Spanish II, 3rd Sem
HWL1262B	Spanish II, 4th Sem
HWL1271B	Spanish III, 5th Sem
HWL1272B	Spanish III, 6th Sem

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