

Roughrider Area Career & Technology Center



2019-2020 Class Offerings

Agriculture Education

Introduction to Agriculture - 01011

Grade Level: 9-12

Credit: ½ Credit or 1 Credit

Format: Online

Instructor: Steeke

www.mycart.com will be the source used to provide information to the students through the use of Moodle. This would be an online class only with Videos and lectures posted by the teacher.

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 –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. This applied course introduces students to agricultural sciences with emphasis on technical skills, entrepreneurship, and occupational opportunities. Units may also include agricultural construction, food and fiber science, supervised agricultural experiences, and leadership development. Skills in identification of equipment, determining a bill of materials. Emphasis is on problem solving and scientific reasoning applied to real world problems integrating knowledge from the life and earth science.

Natural Resource Management (01063)

Science Credit (13110)

Grade Level: 10-12

Credit: ½ Credit

Duration of Class: One Semester (1st Semester)

Format: ITV, Online

Instructor: Steeke

Provides an opportunity for students to increase awareness of the close ties among living organisms. The ecology of the environment and human's use of our natural resources for recreation, wildlife management and agricultural production will be covered.

Animal Science (01025)

Science Credit (13028)

Grade Level: 10-12

Credit: ½ Credit

Duration of Class: One Semester (2nd Semester)

Format: ITV, Online

**** This course can be taken for Dual Credit through DSU**

Instructor: Steeke

The course will cover the history, future technology and career opportunities in animal science. Instruction will cover large and small animals, companion animals and production livestock. Students will be expected to participate in hands-on activities and will include written and oral presentations.

AgriScience Technology III (01023)

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV

Instructor: Zielke

This course will develop agricultural skills for employment, entrepreneurship or further education in agriculture. This course will emphasize information and practices related to Plant Sciences and Crop Production. Topics included are: introduction to plants, fundamentals of soil science, fundamentals of plant growth and propagation and applied plant and soil science. Students taking this course should have an interest in Agronomy, Crop & Soil Science, Conservation and Farm Management.

Business Education

Accounting I (14010)

Grade Level: 9-12

Credit: ½ Credit

Duration of Class: One Semester (1st Semester)

Format: Online

Instructor: Christensen

Students 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: 9-12 (Accounting I is a prerequisite)

Credit: ½ Credit

Duration of Class: One Semester (2nd Semester)

Format: Online

Instructor: Christensen

Students 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.

Accounting III (14012)

Grade Level: 10-12 (Accounting I and Accounting II are a prerequisite)

Credit: ½ Credit

Duration of Class: One Semester (1st Semester)

Format: Online

Instructor: Christensen

Students will acquire a more thorough, in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Students will develop skills in analyzing and interpreting financial information common to businesses. A contemporary business simulation set that lets the student put accounting skills into practice is often included.

Accounting IV (14013)**Grade Level: 10-12 (Accounting, Accounting II and Accounting III is a prerequisite)****Credit: ½ Credit****Duration of Class: One Semester (2nd semester)****Format: Online****Instructor: Christensen**

Students will continue to develop skills in analyzing and interpreting information common to corporate forms of organization, preparing formal statements and supporting schedules, and using inventory and budgetary control systems. Higher level corporate, managerial and cost accounting concepts are presented in this course. A contemporary business simulation set that lets the student put accounting skills into practice is often included.

Word Processing (14096)**Grade Level: 9-12****Credit: ½ Credit****Duration of Class: One Semester (1st semester)****Format: Online****Instructor: Christensen**

Students 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.

Web Design (14022)**Grade Level: 9-12****Credit: ½ Credit****Duration of Class: One Semester (1st Semester)****Format: Online****Instructor: Christensen**

Students will be introduced to a variety of ways to create and maintain web pages. Course topics will focus on overall production with an emphasis on design elements involving layout, navigation, and interactivity. Understanding of proper ethics, copyright laws, social networking and cyber security topics will be integrated. The basic language of web design and software will be taught along with additional media inputs within a website.

Multi Media (14099)**Grade Level: 9-12****Credit: ½ Credit****Duration of Class: One Semester (2nd Semester)****Format: Online****Instructor: Christensen**

Students will use digital images and videos to create meaningful documentation, production, and presentations. Images, logos, backgrounds, and navigation tools for digital display will be used in multimedia and internet applications.

Desktop Publishing (14098)**Grade Level: 9-12****Credit: ½ Credit****Duration of Class: One Semester (2nd semester)****Format: Online****Instructor: Christensen**

Students will use desktop publishing software to create publications such as newsletters, banners, catalogs, brochures, letterheads, business cards, and programs. They will learn design techniques using multimedia integration, formatting skills, page layout and templates. Students will explain the purposes, functions, and common features of desktop publishing software.

Spreadsheets (14025)**Grade Level: 9-12****Credit: ½ Credit****Duration of Class: One Semester (2nd semester)****Format: Online****Instructor: Christensen**

Students will be introduced to spreadsheet software/applications to analyze business trends, solve problems for business, and personal use. This course will include the design and use of worksheets, writing formulas, analyzing data, charting data, managing data, using pivot charts/tables, creating macros, and displaying information on web pages.

Health Sciences

Medical Careers I (07033)

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV, Online

Instructor: Schneider and Johnson (Dickinson High Students)

The Medical Careers I course is designed to assist students interested in the medical field in determining an occupation that will best suit their capabilities and interests. The students will be given a foundation in areas such as: Medical Terminology, Anatomy and related Disorders, Professional Standards, Safety, Monitoring Body Functions, Disease Prevention, and Introduction to Health Careers. The student will explore careers such as Physical Therapy, Occupational Therapy, Optometry, Radiology, Respiratory Therapy, Medical Records, Dental Careers, Medical Lab, and others. Emphasis on academics, professional development, leadership and organizational skills are integrated into the curriculum.

Medical Careers II (07035)

Grade Level: 11-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV, Online

Instructor: Schneider and Johnson (Dickinson High Students)

The Medical Careers II program has been developed to provide students interests in the medical field an in-depth study of a career of their choice which best suits their capabilities and interests. The program is a competency based individualized curriculum in which the student will learn to balance various aspects of health and wellness, improve self-esteem, and make knowledgeable decisions regarding their career choices. It is a 360 hour program designed for the student who has completed a minimum of 180 hours of Health Careers and plans to further their education in a medical field or plans to seek employment immediately following graduation. A primary component of the Advanced Health Careers course offers in-depth career studies. Students will expand their skills and knowledge in specific areas of interest during clinical rotations in the community. 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, Online

****Will be offered for Dual Credit through Dickinson State University**

Instructor: Schneider and Johnson (Dickinson High Students)

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, diagnostics, surgical, clinical and laboratory procedures, and common abbreviations and acronyms by body systems.

Sports Medicine - Prevention & Care of Athletic Injuries (07034)

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV, Online

Instructor: Schneider

Provides the students with a background in athletic training and basic health care. The course emphasizes injury prevention, first responder management of athletic injuries and skills to fulfill the activities of daily living.

Introduction to Emergency Medical Responder (07045)

Grade Level: 10-12

Credit: 1 Credit

Duration of Class: Full Year

Format: ITV, Online

Instructor: Schneider

This course is an introduction to emergency medicine. This course prepares the students to respond to a wide range of emergencies such as heart attacks, auto accidents and diabetic problems. The units of instruction include, EMS systems, workforce safety, medical, legal and ethical issues, communications and documentation, the human body, airway management, patient assessment, medical emergencies, trauma, special patient populations and EMS operations. On completion of the EMR course students will be better prepared to work with local EMT's to complete requirements for state EMR testing.