

GREAT WESTERN
NETWORK
DISTANCE
LEARNING
CONSORTIUM

2018-2019

**REGISTRATION
GUIDE**

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GREAT WESTERN NETWORK DISTANCE LEARNING CONSORITUM COURSE OFFERINGS

AGRICULTURE EDUCATION

Introduction to Agriculture – 01011
Foundations of Agriculture - 01012
Vet Science - 01067
Natural/Environmental Resources-Wildlife Mgmt. – 01063
Agronomy-Crop Science – 01025
Agriculture Sales & Service/Marketing – 01034
Agronomy Science – 01025 or Botany Science – 13024
Livestock Production/Animal Science – 01061
Mechanics Power Systems – 01046
Welding & Fabrication - 01046

ART

Art I - 02020
Drawing - 02025

AVIATION TECHNOLOGY

Aviation Technology I – 17812
Aviation Technology II - 17813

BUSINESS EDUCATION

Accounting I - 14010
Accounting II - 14020
Accounting III – 14012
Accounting IV –14013
Business Fundamentals – 14230
Business Law – 14090
Web Design – 14022
Multimedia - 14099

ELECTRONICS TECHNOLOGY

Electronics Technology I -17150

ENGLISH

College English 110 – 05074 or 05073
College English 120 - 05074
College Speech 110 - 05091

FAMILY AND CONSUMER SCIENCES

Child Development -09026
Parenting – 09130

Parenting – 09130
Independent Living -09025
Family Living -09132

FOREIGN LANGUAGE

French I - 06281
Spanish I - 06211
Spanish II - 06212
Spanish III - 06213

GRAPHIC ARTS

Graphic Design & Photography I - 17072

HEALTH SCIENCES

Medical Related Careers I - 07033
Sign Language I, 101 – 07021
Sign Language II, 102 – 07022
ASL Specialized Vocabulary I, 150 - 07023
ASL Specialized Vocabulary II, 170 - 07024
Sign Language III, 201 – 07023
Sign Language IV, 202 - 07024
Medical Terminology – 07036
Certified Nursing Assistant - 07032
Sports Medicine (Prevention/Care of Athletic Injuries) -07034
Medical Records - 07040
Emergency Medical Services – 07045

INFORMATION TECHNOLOGY

Introduction to IT -27101
IoT (Internet of Things) - 27111
IT Essentials: PC Hardware and Operating Systems - 27219
Intro to Programming/Coding -27120
Coding with Visual Basics-Programming Essentials – 27122
Intro to Networking – 27265
Network Fundamentals – 27267
Cybersecurity - 27280

MARKETING EDUCATION

Marketing – 04210
Sports and Entertainment Marketing – 04240
Principles of Finance – 04081
Social Media Marketing - 04

MATHEMATICS

College Calculus - 11061
College Algebra - 11034
College Pre-Calculus - 11181

MUSIC

Music Appreciation – 12020

PHYSICAL EDUCATION AND HEALTH

Sports Management – 08043

Sports Nutrition - 08010

Intro to Coaching - 08045

Sports Officiating - 08046

SCIENCE

College Anatomy & Physiology I - 13021

College Anatomy & Physiology II - 13022

College Human Structure and Function – 13021

Environmental Science - 13065

SOCIAL STUDIES

Psychology - 15120

Sociology - 15130

TECHNOLOGY & ENGINEERING

Design Engineering – 10260

STEM Seminar I – 10610

STEM Seminar II – 10610

Foundations of Engineering I – 10094

Foundations of Engineering II – 10094

MISCELLANEOUS

Radio Broadcasting - 17140

AGRICULTURE EDUCATION

INTRODUCTION TO AGRICULTURE – 01011

Credits: 1

Grades: 9-12

Instructor:

Delivery Method: ITV (8:30-9:20)

GFACTC-Hillsboro

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. 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. Agricultural mechanics units are designed to develop skills in selection, operation, and maintenance of engines, hydraulics, and agricultural machinery and tractors. Skills in operation and maintenance of equipment, determining a bill of materials, construction techniques, metal fabrication, and joining processes of metals and alloys will be included. Emphasis is on problem solving and scientific reasoning applied to real world problems integrating knowledge from the life and earth sciences.

FOUNDATIONS OF AGRICULTURE – 01012

Credits: 1

Grades: 9-12

Instructor:

Delivery Method: ITV (2:12-3:02)

GFACTC-Hillsboro

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.

VET SCIENCE – 01067 (Fall)

Credits: ½

Grades 10-12

Instructor:

Delivery method: ITV (2:25-3:15)

RRCTC

Description: This course is designed to prepare students for careers in the field of animal science by introducing them to veterinary practices as they relate to both large and small animal species. The student will participate in laboratory and field investigations and demonstrate safety by using critical thinking, scientific reasoning, and problem solving to make informed decisions. They will research and describe the history of veterinary medicine, current topics, the importance of animals in society, and the professional ethics and laws that relate to veterinary medicine. The student will learn to explain the human-animal bond and describe the legal aspects of animal welfare.

NATURAL/ENVIRONMENTAL RESOURCES-WILDLIFE MGMT. – 01063 (Fall)

Credits: 1/2

Grades: 10-12

Instructor: Jenny Vandehoven

Delivery Method: ITV (12:16-1:01 OR 1:04-1:49)

Medina

Description: This course provides an opportunity for students to increase awareness of the close ties among living organisms. Natural and environmental concerns with the interrelationships of living organisms and the world around us. Leadership development and supervised agricultural experience programs are also an integral part of this course.

AGRONOMY-CROP SCIENCE – 01025 (Spring)

Credits: 1/2

Grades: 10-12

Instructor: Jenny Vandehoven

Delivery Method: ITV (12:16-1:01 OR 1:04-1:49)

Medina

Description: This course provides the study of plant physiology and morphology and its relationship to growth, development and reproduction of crop and forage plants in the global environment. Topics include: seed identification, testing and grain grading, identification of agronomic crops and major weeds in crop production. Harvesting and handling will be emphasized. Supervised agricultural experience programs and leadership are integrated in the course. Career opportunities and educational preparation are

examined. Learning activities are varied with classroom, laboratories and field experiences.

AGRICULTURE SALES AND SERVICE/MARKETING – 01034 (Fall)

Credits: 1/2

Grades 10-12

Instructor: Ms. Steeke

Delivery method: Blended ITV/Online (10:18-11:08)

RRCTC

Description: To provide students with skills necessary for entry into employment or furthering education in agriculture sales and service. The course deals with business organizations, business structures, job responsibilities, job applications, and interviewing, human relations, marketing, selling, displaying, using business machines, business accounting, and management skills. Learning activities are varied with classroom, laboratory, and field experiences. Leadership development and supervised agricultural experience programs are an integral part of this course.

AGRONOMY SCIENCE - 01025 OR BOTANY SCIENCE – 13024 (Fall)

Credits: ½

Grades: 10-12

Instructor:

Delivery method: Blended ITV/Online (10:18-11:08)

MRACTC

Description: This course is designed to prepare students for careers in the field of Botany and crop management. This course deals with, classifying living things, cellular biology, genetics and biotechnology, basic principles of soil science, soil erosion and land management, managing soil fertility, introduction to plant science, plant anatomy and physiology, plant propagation, examining plant growth, integrated pest management, producing grain crops, producing oil crops, grain crops, producing fiber and sugar crops, producing fruits and vegetables.

LIVESTOCK PRODUCTION – 01061 (Spring)

Credits: 1/2

Grades: 10-12

Instructor:

Delivery Method: Blended ITV (2:25-3:15)

MRACTC

Description: This 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 handling animals and will include an approved research project including written and oral presentations.

MECHANICS POWER SYSTEMS – 01045 (Fall or Spring)

Credits: ½

Grade: 10-12

Instructor:

Delivery Method: Online + Labs

MRACTC

Description: This Mechanics course offers a study of the operation, maintenance, and repair of small gasoline engines. Instructional topics include but are not limited to the principles of operation of gasoline/diesel engines, tune-up and maintenance procedures, and disassembly, overhaul, and reassembly of gasoline small engines. Instruction may also include the operation of two and four-cycle engines commonly found on lawn mowers, snow blowers, rotary tillers, chainsaws, and other equipment. As time allows, other power systems could be covered (Ag. electricity and machinery) 20-25 hours of hands-on small engine lab experience is required for this course. Students will meet at a selected facility for hands-on supervised overhaul/repair and maintenance as a part of this class. Travel to the facility will be the responsibility of the local school.

WELDING & FABRICATION – 01046

Credits: ½

Grade: 10-12

Instructor:

Delivery Method: Online + Labs

MRACTC

Description: The Welding and Fabrication curriculum is designed to develop students' understanding of applied mechanical applications associated with the field of welding. Content includes, but is not limited to, instruction that prepares individuals to select, operate and maintain a variety of welding equipment and related tools. Subject matter may include: Oxy-fuel Cutting, Heating and Welding; Shielded Metal Arc Welding (SMAW); Gas Metal Arc Welding (GMAW) and Plasma Arc Cutting. Safety and Metal Fabrication as well as record keeping, leadership, communications, employability and human relations skills will also be emphasized. 20-25 hours of hands-on welding lab experience is required for this course. Students will meet at a selected welding lab/facility for hands on supervised welding instruction as a part of this course. Travel to the facility will be the responsibility of the local school.

ART

ART I - 02020

Credits: 1

Grades: 9-12

Instructor:

Delivery Method: ITV

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 (Fall)

Credits: ½

Grades: 9-12

Instructor:

Delivery Method: ITV

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.

AVIATION TECHNOLOGY

AVIATION TECHNOLOGY I -17812

Credits: 1

Grades: 11-12

Instructor:

Delivery Method: Online

MRACTC Bismarck

Description: This is the entry level course to prepare students for employment in the aviation industry. The course covers fundamentals of flight, flight operations, aviation weather, performance and navigation. The course also explores careers in air traffic control, flight dispatching and airport management. Units of instruction include: safety of flight, airport layout, aeronautical charts, radar, radio procedures, airplane power plant, aerodynamics, weather patterns and hazards. Emphasis on applied academics in math and science are integrated throughout the curriculum along with decision-making principles as it applies to flight-related factors.

AVIATION TECHNOLOGY II - 17813

Credits: 1

Grades: 12

Instructor:

Delivery Method: Online

MRACTC

Description: Students will be preparing to pass the Federal Aviation Administration (FAA) private pilot written exam. This course will cover advanced flight topics as well as

expanding topics covered in Aviation I to an advanced level. An Introduction to Unmanned Aircraft Systems (UAS) will also be included. **Successful completion of Aviation I is a prerequisite.**

BUSINESS EDUCATION

BUSINESS FUNDAMENTALS – 14230

Credits: 1
 Grades: 9-12
 Instructor:
 Delivery Method: ITV

Description: Students will be introduced to the world of business and prepare for the economic roles of consumer, worker, and citizen. The content may include a study of the business environment and strategies for creating, financing, marketing and managing a business. This course will also serve as a background for other business courses you may take in high school and college.

BUSINESS LAW - 14090

Credits: 1
 Grades: 9-12
 Instructor:
 Delivery Method: ITV (12:49-1:34)
 Surrey

Description: Students in Business Law will be introduced to the fundamental background of the development and enforcement of laws, the difference between criminal and civil law, and our present court system and how it works. Topics to be discussed include laws concerning contracts, sales, consumers, property, computers, family, environment, wills and trusts, and bankruptcy.

ACCOUNTING I (Fall Semester) - 14010

Credits: 1/2
 Grades: 9-12
 Instructor: Jason Joy
 Delivery Method: ITV (9:33-10:23)
 LaMoure

Description: Accounting I 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 into the course.

ACCOUNTING II (Spring Semester) - 14011

Credits: 1/2

Grades: 9-12

Instructor: Jason Joy

Delivery Method: ITV (9:33-10:23)

LaMoure

Description: 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. Prerequisites: Accounting I

ACCOUNTING III (Fall Semester) - 14012

Credits: 1/2

Grades: 10-12

Instructor:

Delivery Method: ITV

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

ACCOUNTING IV (Spring Semester) - 14013

Credits: 1/2

Grades: 10-12

Instructor:

Delivery Method: ITV

Description: 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. Prerequisites: Accounting I, II and III.

WEB DESIGN – 14022

Credits: ½

Grades: 9-12

Instructor:

Delivery Method: Online

GFACTC

Description: Introduces students to a variety of ways to create and maintain web pages. Students will focus on the overall process with particular emphasis on design elements involving

layout, navigation, and interactivity. The basics of web design programming and software will be learned along with the additional media inputs within a website.

MULTIMEDIA – 14099

Credits: ½

Grades: 9-12

Instructor:

Delivery Method: Online

GFACTC

Description: This course will provide students the opportunity to use their creativity in manipulating digital images and videos to create a variety of projects, through the use of Adobe software, students will create images, logos, backgrounds, and themes for multimedia and Internet applications.

ELECTRONICS TECHNOLOGY

ELECTRONICS TECHNOLOGY I – 17150

Credits: 1

Grades: 10-12

Instructor:

Delivery Method: Online using Google Classroom

MRACTC

Description: The course provides an "online" learning experience for the student interested in electronics technology. The program utilizes a computer based textbook connected to a high tech training console, and along with a variety of test equipment. Electronics is the study, design, and use of electrical circuits to manipulate electrical signals. So whether it's cell phones, MP3 players, or power plant instrumentation, this course prepares the student for career paths such as telecommunications, biomedical, computer networking, automotive technology, and engineering, just to name a few. Successful completion of Algebra I is highly recommended.

ENGLISH

COLLEGE ENGLISH 110 – 05074 or 05073 (Fall)

Credits: ½

Grades: 11-12

Delivery Method: ITV (7:40-8:30, 9:23-10:08, 12:35-1:24, 1:32-2:22)

DCB, NDSCS

Description: Prerequisite: Appropriate English placement test score or ASC 87 with a grade of C or higher. Guided practice in college-level reading, writing and critical thinking

COLLEGE ENGLISH 120 – 01074 (Spring)

Credits: ½

Grades: 12

Delivery Method: ITV (7:40-8:30, 9:23-10:08, 12:35-1:24, 1:32-2:22)

DCB, NDSCS

Description: Prerequisite: ENGL 110 Advanced practice in college-level writing from sources and in applying rhetorical strategies.

COLLEGE SPEECH 110 – 05091 (Fall or Spring)

Credits: ½

Grades: 11-12

Delivery Method: ITV (8:35-9:20, 2:40-3:25)

DCB

Description: The theory and practice of public speaking with emphasis on content, organization, language, delivery and critical evaluation of messages.

FAMILY AND CONSUMER SCIENCES

CHILD DEVELOPMENT – 09026

Credits: 1

Grades 10-12

Instructor: Jenessa Fritel

Delivery Method: ITV (8:35-9:20)

NCACTC Leeds

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 (Fall)

Credits: 1/2

Grades: 9 – 12

Instructor:

Delivery Method: ITV (12:32-1:22) or Online
GWN, MRACTC

Description: Designed for both males and females, this course will prepare you for what is probably the most important job you will ever have, that of being a parent. This course will help you develop positive attitudes, realistic expectations and effective skills for parenting. Pregnancy, parenting roles of fathers and mothers, financial impact of a child and other parenting concerns are emphasized in this class. You will get to practice being a parent by taking home a “RealCare” computerized baby for a weekend.

CHILD DEVELOPMENT – 09026 (Spring)

Credits: 1/2
Grades: 9 – 12
Instructor:
Delivery Method: Online
MRACTC

Description: Popular among students who want to learn more about children, this is a great class for anyone who expects to become a parent or plans to work with children. By bringing a “flourbaby” to daycare for several days, students experience many realistic aspects of parenting a newborn. Students will put into practice what child development experts know will help children be happy, stay safe, and reach their full potential.

INDEPENDENT LIVING – 09025 (Fall)

Credits: 1/2
Grades 10-12
Instructor:
Delivery Method: online
MRACTC

Description: For a student who is looking forward to being on his/her own, taking this course will help you avoid some common problems. Finding and keeping a job you enjoy, handling your money wisely, securing housing, choosing a roommate, making healthy food decisions, and maintaining your personal possessions are topics covered in this class.

FAMILY LIVING – 09132 (Spring)

Credits: 1/2
Grades 10-12
Instructor:
Delivery Method: ITV (12:32-1:22) or online
GWN, MRACTC

Description: This course is about relationships. Factors that contribute to a stable and meaningful family are emphasized. Topics covered include understanding the opposite

sex, learning how to relate to friends, avoiding abusive relationships, reducing chances for divorce and coping with family crisis and change.

FOREIGN LANGUAGE

FRENCH I – 06281

Credits: 1

Grades: 9-12

Instructor: Mary Beth Lunde

Delivery Method: ITV (12:16-1:01)

Griggs County Central

Description: Designed to introduce students to French language and culture, French 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. French culture is introduced through the art, literature, customs, and history of the French-speaking people.

SPANISH I – 06211

Credits: 1

Grades: 9-12

Instructors: Sandy Meidinger, Nicole Neumiller, Christie Anderson

Delivery Method: ITV or hybrid

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

Credits: 1

Grades: 10-12

Instructor: Sandy Meidinger, Nicole Neumiller, Christie Anderson

Delivery Method: ITV or hybrid

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).

SPANISH III – 06213

Credits: 1

Grades: 11-12

Instructor: Christie Anderson

Delivery Method: ITV hybrid

Description: Spanish III focuses on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

GRAPHIC ARTS

GRAPHIC DESIGN & PHOTOGRAPHY I - 17072

Credits: 1

Grades: 10-12

Instructor:

Delivery Method: online

MRACTC, GFACTC

Description: This course will introduce students to the skills needed in graphic design. Students will be exposed to photography, scanning, the elements and principles of design, effective thumb-nailing and typography. This course will address how artwork and photographic images can be used in commercial design. Students will create a digital portfolio for their artwork and they will be introduced to the following Adobe Creative Cloud Software: InDesign, Photoshop and Illustrator. Units will be based on the Print Ed competencies and the ND Graphic Communications Education Content Standards for Introduction to Graphic Communications and Advertising Design.

HEALTH SCIENCES

MEDICAL RELATED CAREERS I - 07033

Credits: 1

Grades 10-12

Instructor:

Delivery Method: ITV (8:30-9:20, 9:23-10:13, 9:25-10:15, 10:16-11:06) or online

MRACTC, RRACTC, GNWACTC or GFACTC

Description: Students will explore healthcare principles such as the history of medicine, safety, disease transmission and prevention. Students will also be introduced to various health careers and medical terminology. Three hands-on learning experiences are required and may require travel to alternate locations. Students must successfully complete both semesters of this class including First Aid & CPR/AED Certification for Healthcare Providers. This course and the required certifications are the prerequisite to all other Health Science courses and is offered either on-line or via interactive television.

SIGN LANGUAGE I, 101– 07021 (Fall)

Credits: 1/2

Grades: 10-12

Instructor: Connell, Ginther, Martin

Delivery Method: ITV (8:30-9:20, 8:35-9:20 or 1:27-2:17)

Sawyer, LRSC

Description: Basic knowledge of American Sign Language (ASL) vocabulary and basic conversational skills. A study of linguistics, grammar, classifiers and non-manual markers. Fundamental aspects of deaf culture and the deaf community are incorporated.

SIGN LANGUAGE II, 102 – 07022 (Spring)

Credits: 1/2

Grades: 10-12

Instructor: Connell, Ginther, Martin

Delivery Method: ITV (8:30-9:20, 8:35-9:20 or 1:27-2:17)

Sawyer, LRSC

Description: Increased understanding of American Sign Language including linguistics, grammar, classifiers and non-manual markers. Vocabulary is also increased. Continuation of ASL I with greater emphasis on expressive signing skills. Prerequisite: ASL II, 101

ASL SPECIALIZED VOCABULARY I – 150 (Fall)

Credits: 2 college credits

Grades: 11-12

Instructor: Ginther

Delivery Method:

LRSC

Description: Focus on vocabulary used in special settings such as educational, legal, medical, vocational rehabilitation, athletics, mental health and community events. Basics of ethical behaviors and professionalism while interpreting in different settings.

Prerequisite: ASL 101 or 102

ASL SPECIALIZED VOCABULARY II - 170 (Spring)

Credits: 2 college credits

Grades: 11-12

Instructor: Ginther

Delivery Method: ITV

LRSC

Description: Focus on vocabulary used in special settings such as educational, legal, medical, vocational rehabilitation, athletics, mental health and community events. Basics of ethical behaviors and professionalism while interpreting in different settings.

Prerequisite: ASL 101 and 102

SIGN LANGUAGE III, 201 – 07023 (Fall)

Credits: ½

Grades: 11-12

Instructor: Connell

Delivery Method: ITV (10:59-11:44)

Sawyer

Description: Continuation of ASL 102 through further study of American Sign Language including linguistics, grammar, classifiers, non-manual markers and cultural features. Gain knowledge of ASL characteristics and its structural applications. Expands students use of face, eyes and head to convey grammatical information. Opportunities to develop competency and fluency in ASL. Prerequisite: ASL 101 and 102

SIGN LANGUAGE IV, 202 – 07024 (Spring)

Credits: ½

Grades: 11-12

Instructor: Connell

Delivery Method: ITV (10:59-11:44)

Sawyer

Description: Continuation of ASL 201 through further study of American Sign Language including linguistics, grammar, classifiers, non-manual markers and cultural features. Acquire in-depth knowledge of ASL characteristics and its structural applications. Students analyze the various parts of ASL such as hand shape, movement, location, repetition, palm orientation and non-manual grammatical signals for the purpose of strengthening and developing their skills. Opportunities to develop competency and fluency in ASL. Prerequisite: ASL 201

MEDICAL TERMINOLOGY – 07036 (Fall or Spring)

Credits: 1/2
 Grades 11-12
 Instructor:
 Delivery Method: online
 MRACTC, GFACTC

Description: In this course, students will develop skills necessary for decoding of commonly used medical terms including the meaning of medical suffixes, prefixes and word roots. Students will learn terminology associated with body systems, diseases and disorders of those systems. Students will be expected to use correct spelling and pronunciation of medical terms they have learned and will also learn common medical abbreviations. Students must have reached the minimum age of 16 at the start of the course, and meet all criteria/expectations of the Rasmussen College “Early Honors Program” application prior to the start of the course. **Dual Credit will be provided by Rasmussen College for the successful completion of this course.**

CERTIFIED NURSING ASSISTANT – 07032

Credits: 1
 Grade Levels – 10-12
 Instructor:
 Delivery Method: ITV (10:18-11:08)
 MRACTC

Prerequisite: Health Careers I including First Aid & CPR/AED Certification for Healthcare Providers is required.

Course Description: This course provides classroom instruction and clinical practice to prepare the student for employment as a Certified Nursing Assistant (CNA) in a skilled nursing facility, acute care or home health care setting. Three mandatory hands-on training days are held at the Bismarck Career Academy. Upon successful completion of clinical hours and course requirements, students are eligible to take the state exam through the North Dakota Board of Nursing. Up to date vaccinations including influenza and a TB test are required per facility policy. Students 18 or older must have a background check. The student is responsible for necessary vaccinations, transportation to clinical sites and the state exam fee. State mandated clinical hours are outside of class time.

SPORTS MEDICINE –Prevention & Care of Athletic Injuries - 07034

Credits: 1
 Grades: 11-12
 Instructor:
 Delivery Method: ITV (9:25-10:15, 11:13-12:03, 2:25-3:15)
 MRACTC, GNWACTC

Prerequisite: Medical Related Careers I including First Aid & CPR/AED Certification for Healthcare Providers is required. (Concurrent enrollment in Med Careers I is allowed)

Course Description: This is an introductory course for students interested in the field of Sports Medicine. Topics discussed include: prevention, recognition and immediate care

of athletic injuries; equipment fitting: rehabilitation of athletic injuries and taping and wrapping techniques. Classroom learning is enhanced through clinical education experiences if available at the school. Three hands-on training days at selected sites are included. The student is responsible for transportation to clinical sites. **Dual Credit through the University of Mary is available.**

MEDICAL RECORDS – 07040 (Fall or Spring)

Credits: 1/2

Grades: 10 – 12

Instructor:

Delivery Method: Online

GNWACTC

Course Description: This course is designed to prepare students for employment as medical records clerks. A wide range of skills including telephone protocol, greeting patients, medical coding, insurance and medical records recording and filing, handling correspondence and scheduling appointments will be covered. Students will gain an understanding of medical terms, clinic and hospital procedures including arrangements for laboratory services, hospital admissions, billing and basic book keeping.

EMERGENCY MEDICAL TECHNICIAN – 07045

Credits: 1

Grades: 11-12

Instructor:

Delivery Method: ITV (1:32-2:22)

RRACTC

Course Description: Students will complete the national curriculum for 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 will participate in extensive “hands-on” practical sessions using modern pre-hospital care equipment under the instruction of paramedics from a local paramedic/ambulance service. Upon completion of the course students will be eligible for ND state licensure testing. Partnership and cooperation with a local paramedic/ambulance service is required to enroll in this class.

INFORMATION TECHNOLOGY

INTRODUCTION TO INFORMATION TECHNOLOGY - 27101 (Fall)

Credits: ½

Grades 9-12

Instructor:

Delivery Method: Online

MRACTC

Course Description: This exploratory level course provides an exposure to careers and issues in Information Technology. Units prepare students for the industry recognized “Internet and Computing Core Certification” (IC³). This globally recognized certification provides students with the foundation of knowledge needed to excel in fields that involve computers and the Internet. The IC³ Global Standard 3 reflects the most relevant skills for school and business today including: Computing Fundamentals, Key Applications, and Living Online.

IOT (INTERNET OF THINGS) – 27111

Credits: ½

Grades: 10-12

Instructor:

Delivery Method: Online

MRACTC

Course Description: The Internet of Things course develops basic skill using hands-on lab activities that will be used in other IT courses. Students will apply creative problem-solving and rapid prototyping within the domains of electronics, networking, security, data analytics, and business. You will develop the ability to extract data and use data analytics to gain insights. The course focuses on identifying, designing, prototyping, and presenting an IoT solution that securely solves a current business or social problem.

IT ESSENTIALS: PC HARDWARE AND OPERATING SYSTEMS – 27219 (Spring)

Credits: 1/2

Grades: 9-12

Instructor:

Delivery Method: Online

MRACTC, GFACTC

Prerequisite: Intro to IT 27101

Description: This course presents an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course prepares students for Comp TIA’s “A+” certification and/or Comp TIA’s “IT Fundamentals” certification exams. Dual Credit is available through BSC (for grades 10-12) **Prerequisite – Introduction to Information Technology 27101**

INTRO TO PROGRAMMING/CODING – 27120 (Fall)

Credits: ½

Grades: 10-12

Instructor:

Delivery Method: Online
MRACTC

Description: This Course will provide students with a solid foundation for understanding the fundamental concepts of programming languages. Students will be introduced to the visual Basic Programming language and complete projects utilizing programming concepts, variables, constants, decision structures and looping structures.

CODING WITH VISUAL BASICS – PROGRAMMING ESSENTIALS – 27122 (Spring)

Credits: 1/2

Grades: 10-12

Instructor:

Delivery Method: Online

MRACTC, GFACTC

Prerequisite: Intro to Programming Languages 27120

Description: This course is an online hands-on course in computer programming using visual basic. The students will develop good problem solving and programming skills while performing several hands-on labs and assignments. Topics covered include; procedures, mathematical and business functions, arrays and structures, color, sound, and graphics, creating classes, using files, sorting and searching. Dual credit is available through BSC.

INTRODUCTION TO NETWORKING – 27265 (Fall or Spring)

Credits: 1/2

Grades: 9-12

Instructor:

Delivery Method: Online

MRACTC

Description: This course teaches the basics of networking. It covers how devices work together on a network, network addressing and network services, how to build a home network and design basic security, the basics of configuring Cisco devices, as well as testing and troubleshooting network problems.

NETWORK FUNDAMENTALS I – 27267 (Fall)

Credits: ½

Grades: 10-12

Instructor:

Delivery Method: Online

MRACTC

Course Description: Network Fundamentals I covers networking architecture, structure, and functions. The course introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to provide a foundation

toward a career in networking. Students will be able to design an IP addressing structure to provide network connectivity for a small to medium-sized business network, form initial settings on a network device, and implement basic network connectivity between devices. *Dual Credit is available through BSC.*

CYBERSECURITY – 27280 (Fall or Spring)

Credits: 1/2

Grades: 9-12

Instructor:

Delivery Method: Online

MRACTC

Course Description: Cybersecurity is becoming a major concern for any business that uses the Internet for any part of their business. This course will introduce students to best practices businesses use to protect their information as well as techniques individuals can use protecting themselves using social media. Identification of cybercrime, security principles, technologies and security principles to defend networks will be covered and build skills and knowledge for students to pursue careers in cybersecurity. *Dual credit is available through BSC – for grades 10-12.*

MARKETING EDUCATION

MARKETING – 04210

Credits: 1

Grades 10 – 12

Instructor:

Delivery Method: Online

MRACTC

Description: This course develops students understanding and skills in such areas as channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Focus will be on the marketing mix, including products, promotion, pricing, and distribution. Through the use of projects and online simulations, students acquire an understanding and appreciation of marketing activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Students also have the opportunity to participate in DECA through Bismarck Public Schools MRACTC group.

SPORTS & ENTERTAINMENT MARKETING – 04240 (Fall or Spring Semester)

Credits: 1/2

Grades 10 – 12

Instructor:
Delivery Method: Online
MRACTC

Course Description: This course introduces students to marketing occupations in the area of sports and entertainment. Take a look at the exciting and dynamic field of sports and entertainment marketing. One of the largest industries in the world, sport marketing provides a unique way of looking at the business world. This course will focus on the two main aspects of sports and entertainment marketing: 1) The marketing of sports and entertainment, and 2) The marketing of non-sports products and services through sports. You will discover why companies pay to be associated with a team or entertainer; how to develop ticket plans to fill the seats in the arena; why targeting your marketing efforts is so important; and more. Students also have the opportunity to participate in DECA through Bismarck Public Schools MRACTC group.

PRINCIPLES OF FINANCE – 04081 (Fall or Spring)

Credits: 1/2
Grades: 9-12
Instructor:
Delivery Method: Online
MRACTC

Course Description: Principles of Finance expands student understanding of finance. Students develop their knowledge and skills in such areas as business law, communication skills, compliance, customer relations, economics, financial analysis, financial-information management, human resources management, marketing, professional development, and selling. Emphasis is placed on the analysis and purchase of securities and investments, as well as the need for effective customer relationship management and information management in finance. Principles of Finance is an entry level course in The Business Administration Program of Study for Marketing Education.

SOCIAL MEDIA MARKETING – 04 (Fall or Spring)

Credits: ½
Grades: 9-12
Instructor:
Delivery Method: Online
MRACTC

Course Description: Social Media Marketing presents the use of online social networking as a business strategy designed to increase customer loyalty and inquiry conversion. Students will study major social media channels and marketing campaign techniques, and evaluate contemporary and emerging tools in the digital marketplace including social bookmarking and techniques to drive social media traffic. Analyses of social media effectiveness will also be explored. Social Media Marketing is an entry level course in The Business Administration Program of Study for Marketing Education.

MATHEMATICS

COLLEGE CALCULUS – 11061

Credits: $\frac{1}{2}$

Grades: 12

Instructor:

Delivery Method: ITV

DCB

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).

COLLEGE ALGEBRA – 11034

Credits: $\frac{1}{2}$

Grades: 11-12

Instructor:

Delivery Method: ITV (7:40-8:30, 9:23-10:08, 10:59-11:44; 12:40-1:30)

DBM, MiSU

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.

COLLEGE PRE-CALCULUS – 11181

Credits: $\frac{1}{2}$

Grades: 11-12

Instructor:

Delivery Method: ITV (7:40-8:30, 10:59-11:44)

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.

MUSIC

MUSIC APPRECIATION – 12020

Credits: 1

Grades: 9-12

Instructor: Karen Niewoehner

Delivery Method: ITV (10:59-11:44)

Sawyer

Description: Music History and 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

PHYSICAL EDUCATION AND HEALTH

SPORTS MANAGEMENT – 08043 (Fall)

Credits: 1/2

Grades: 9-12

Instructor: Lance Gehring

Delivery Method: ITV (9:23-10:08)

Sawyer

Course Description: This course will introduce students to the many career opportunities in sports management and marketing. Students will obtain an understanding of basic management principles as they apply to sport. This course will educate and encourage students to use different leadership styles, communication techniques, and motivation as they apply them to the rapidly growing fields of sport management.

SPORTS NUTRITION – 08010 (SPRING)

Credits: ½

Grades: 9-12

Instructor: Lance Gehring

Delivery Method: ITV (9:23-10:08)

Sawyer

Course 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.

INTRODUCTION TO COACHING – 08045 (Fall)

Credits: ½

Grades: 9-12

Instructor:

Delivery Method: ITV (10:11-10:56)

Sawyer

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 (Spring)

Credits: ½

Grades: 9-12

Instructor:

Delivery Method: ITV (10:11-10:56)

Sawyer

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

COLLEGE ANATOMY & PHYSIOLOGY I – 13021 (Fall)

Credits: ½

Grades: 11-12

Instructor:

Delivery Method: ITV (7:40-8:30)

DCB

Description: A study of the structure and function of the human body. Topics include chemistry, cell biology, tissues, integumentary system, skeletal system, muscular system, nervous system and endocrine system.

COLLEGE ANATOMY & PHYSIOLOGY II – 13022 (Spring)

Credits: ½

Grades: 11-12

Instructor:

Delivery Method: ITV (7:40-8:30)

DCB

Description: A study of the structure and function of the human body. Topics include lymphatic system, cardiovascular system, respiratory system, digestive system, urinary system, reproductive system, development and genetics.

COLLEGE HUMAN STRUCTURE AND FUNCTION – 13021 (Fall)

Credits; ½

Grades: 11-12

Instructor:

Delivery Method: ITV (2:40-3:30)

DCB

Description: A one-semester course that integrates the structure and function of the human body. Topics include chemistry, cell biology, tissues and organ systems. Course includes a lab component.

ENVIRONMENTAL SCIENCE – 13065

Credits: 1

Grades: 11-12

Instructor: Lauren Sako

Delivery Method: ITV (1:27-2:17)

Gackle/Streeter

Description: examines the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, this course usually covers the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

SOCIAL STUDIES

PSYCHOLOGY 111 – 14120 (Fall)

Credits: ½

Grades: 10-12

Delivery Method: ITV (11:11-12:01, 12:16-1:01, 1:04-1:49)
Midkota, LRSC or DCB

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 110 – 15130 (Spring)

Credits: ½

Grades: 10-12

Delivery Method: ITV (11:11-12:01, 12:16-1:01, 1:04-1:49)

Midkota, LRSC or DCB

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.

TECHNOLOGY & ENGINEERING

DESIGN ENGINEERING – 10260

Credits: 1

Grades: 9-12

Instructor:

Delivery Method: Online

GFACTC

Description: The purpose of this course is to introduce students to effective practices used in Engineering Design and Architecture. These practices include developing problem solving skills, creating Engineering drawings, product design with the use of 3D CAD solid modeling software, understanding the process needed to create a residential design using Autodesk's AutoCAD software.

STEM SEMINAR I– 10610 (Fall)

Credits: 1/2

Grades: 9-12

Instructor:

Delivery Method: Online

MRACTC

Description: STEM SEMINAR is a project-based course in which students use Science, Technology, Engineering and Math to solve real world problems. Students will design projects such as bridges, assistive-reach devices, simple motors, parachutes, etc. Students will use common, everyday materials to design prototypes of products that help people in the real world. STEM focuses on the basics of the Engineering Design Process. There are no textbooks, no quizzes, and no tests. All grading will be based on the effort in the creation of a product, participation in discussion, and use of the engineering design process. STEM careers will also be explored. *This course can be alternatively coded as 1/2 science credit, (13150) or 1/2 math credit (11170)*

STEM SEMINAR II – 10610 (Spring)

Credits: 1/2

Grades: 9-12

Instructor:

Delivery Method: Online

MRACTC

Description: STEM SEMINAR is a project-based course in which students use Science, Technology, engineering and Math to solve real world problems. Students will explore concepts such as energy and power, agricultural engineering, computer programming, and medical technology. STEM SEMINAR focuses on the engineering Design Process. There are no textbooks, no quizzes, and no tests. All grading will be based on the effort in the creation of a product, participation in discussion, and use of the engineering design process. STEM careers will also be explored. *This course can be alternatively coded as 1/2 science credit, (13150) or 1/2 math credit (11170)*

FOUNDATIONS OF ENGINEERING I – 10094 (Fall)

Credits: 1/2

Grades: 9 – 12

Instructor:

Delivery Method: Online

MRACTC

Course Description: Would you prefer to learn by doing? Do you like to build things? In this class, students will complete design challenges while researching better solutions, designing 3D models and actual models, testing and evaluating products. Some possible hand's-on projects include developing and designing a wind turbine, solar car, CO2 dragster, a mousetrap car, and a glider. This course consists of two separate learning units, each nine weeks in length: Energy and Power Technologies and Transportation Technologies. STEM careers and safety will also be explored. *This course can be alternatively coded as ½ science credit (13045).* Successful completion of STEM SEMINAR I or II is a prerequisite.

FOUNDATIONS OF ENGINEERING II – 10094 (Spring)

Credits: 1/2

Grades: 9 – 12

Instructor:

Delivery Method: Online

MRACTC

Course Description: In this class, students will complete design challenges while researching better solutions, designing 3D models and actual models, testing and evaluating products. Some possible hand's-on projects include developing and designing a bridge, a survival shelter, a prosthetic arm, a robot and a rocket. This course consists of two separate learning units, each nine weeks in length: Manufacturing Technologies and Construction Technologies. STEM careers and safety will also be explored. *This course can be alternatively coded as ½ science credit (13045).* Successful completion of FOUNDATIONS OF ENGINEERING I is a prerequisite.

MISCELLANEOUS

RADIO BROADCASTING - 17140

Credits: 1

Grades: 9-12

Instructor: Jay Schmaltz

Delivery: ITV (8:30-9:20)

GWN

Course Description: Students will successfully learn and demonstrate the abilities necessary to execute the positions of a Live 'On Air' Radio Station. Tasks include proper announcing, commercial and news writing, recording and editing of news and commercials, conducting interviews, and producing and hosting a live Radio Show.

Equipment purchases of approximately \$2,700 are required for this class.