



2026-2027
Glen Ullin
Public School
Course Catalog

Accounting Courses

Mrs. C

Accounting 1 (Fall) & 2 (Spring) - RACTC

MIS03: 14010/14011

Grade Level: 9-12

Length: Full Year

Credit: .5 each

Students in Accounting 1 & 2 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 will be integrated in the course.

Accounting 3 (Fall) & 4 (Spring) - RACTC

MIS03: 14012/14013

Grade Level: 10-12

Length: Full Year

Credit: .5 each

Prerequisite: Acct 1 and Acct 2

Students in Accounting 3 & 4 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 included.

Forensic Accounting 2027-2028

MIS03: 14014

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Prerequisite: Acct 1, 2, 3, 4

Students in Forensic Accounting will explore the application of accounting concepts and techniques to legal problems. Forensic accountants investigate and document financial fraud and white-collar crimes such as embezzlement. They also provide litigation support to law enforcement agencies investigating financial wrongdoing.

Entrepreneurial Accounting 2027 - 2028

MIS03: 14015

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Prerequisite: Acct 1, 2, 3, 4

Students in Entrepreneurial Accounting will examine the principles, techniques, and uses of accounting in the planning, control, and decisionmaking of business organizations from an entrepreneurial perspective.

Agriculture Courses

Mr. Krein

Ag I (Introduction of Agriculture)

MIS03: 01011

Grade Level: 9

Length: Full Year

Credit: .5

This 36-week course introduces students to the Future Farmers of America (FFA), covering its history, leadership, public speaking, and SAE/AET.com. The curriculum also delves into core agricultural sciences, including Soil Science (importance, components, texture, and classification) and Plant Science (introduction, classification, anatomy, and commodities). Additionally, the course features two significant units in Ag Mechanics: one focusing on Power Tools, safety, and a Wood Project, and another on Metal Working, including Oxy Acetylene welding and cutting, grinder use, and a related project. Finally, the Animal Science unit addresses Animal Welfare, safe handling practices, handling facilities, and general husbandry practices.

Key Units:

- Introduction to FFA
- Soil Science
- Woodworking
- Plant science
- Metal Working

Ag II (Foundations of Agriculture)

MIS03: 01012

Grade Level: 10

Length: Full Year

Credit: .5

This 36-week course focuses on developing skills in various agricultural disciplines. The curriculum includes Public Speaking, covering skills, script writing, and demonstration speeches. It introduces Range Science, with units on slope and plant identification. A significant portion is dedicated to Ag Mechanics, featuring a safety review, the creation of an Adirondack Chair Project (including a Bill of Materials), and modules in Mechanical, Pneumatics, and Hydraulics ("MPH"). Furthermore, students receive an introduction to welding, including safety, SMAW (Stick) and GMAW (Wire) welding techniques, weld tests, and a culminating Welding Project.

Key Units:

- Public Speaking
- Range Science
- Woodworking
- Welding
- Mechanical, Pneumatics, and Hydraulics

Ag III

MIS03: 01073

Grade Level: 11

Length: Full Year

Credit: .5

This 36-week course is structured around three core areas of study. The Ag Mechanics unit focuses on advanced techniques, including the use of a Wood Lathe and Plasma Cutter, both of which culminate in practical projects, alongside the study of Advanced Wood Joinery Techniques and an associated project. The Electricity unit provides foundational knowledge in Theory/Power, necessary tools, AC/DC current, and Electrical Circuits. Finally, the Structures unit covers essential topics such as Building Types/Code, Material Costs, and Manual Drafting, culminating in a comprehensive Full Scale Shed Building Project.

Key Units:

- Woodworking
- Metal Working
- Electricity
- Structures

Ag IV

MIS03: 01074

Grade Level: 12

Length: Full Year

Credit: .5

This 36-week course for 12th grade is focused on advanced Ag Mechanics, covering a diverse range of practical and technical skills. Key units include Shop/Tool Room/Paint Room Upgrades and Layouts, Advanced Woodworking culminating in End Table Projects, and Metal Forging with techniques, safety, smelting/foundry work, and Forge Projects. The curriculum also features a Small Engines unit, covering their history, types, parts, tools, and hands-on teardown/rebuilds and maintenance. Finally, students will learn CNC Plasma Cutting, which includes safety training, planning, coding, and practical CNC Cutting Projects.

Key Units:

- Advanced Woodworking
- Metal Forging
- Small Engines
- CNC Plasma Cutting

Ag Mech Tech I & II

Odd years will be Ag Mech Tech I. Even years will be Ag Mech Tech II. Courses do not need to be taken in sequential order.

MIS03: 01043/01044

Grade Level: 11-12

Length: Fall Semester

Credit: .5

This 18-week course focuses on modern fabrication technologies, introducing students to the 3D Printer, including its history, importance, and hands-on learning activities and projects. The curriculum also covers the safe operation of a Laser Engraver and a CNC Router, with both units including safety protocols, learning activities, and practical projects.

Key Units:

- 3D Printer
- Laser Engraver
- CNC Router

Ag Processing (Food Science)

MIS03: 01068

Grade Level: 11-12

Length: Spring Semester

Credit: .5

This 18-week course, focused on Food Science, explores various aspects of the field. Key units include the Science of Food, covering its industry and sensory evaluation, as well as an introduction to Basic Chemistry, including matter, bonding, acids, and bases. The curriculum also delves into Microcomponents (Vitamins, Minerals, Substitutes) and Living Organisms, with a focus on single-cell organisms and foodborne illnesses. Finally, the course covers Food Preservation techniques, such as hot/cold preservation, packaging, and dehydration, and concludes with an exploration of Food Career Explorations.

Key Units:

- Science of Food
- Basic Chemistry
- Microcomponents
- Living Organisms
- Food Preservation
- Food Career Explorations

Independent Agricultural Studies

MIS03: 01990

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Prerequisite: Teacher Discretion and Approval Required

This course provides students in agriculture an opportunity to expand and explore the fields of agriculture, leadership, and personal development individually.

Business Courses

Mrs. C

Multimedia 1 - RACTC

MIS03: 14099

Grade Level: 9-12

Length: Spring Semester

Credit: .5

This course will provide students the opportunity to use their digital images and videos to create meaningful documentation and production. This course examines the use of software to create images, logos, backgrounds, and control buttons for digital display in multimedia and Internet applications. Students will learn image-editing, animations, file compression, digital audio/video editing, and planning for multimedia applications.

Multimedia 2 - RACTC

MIS03: 14100

Grade Level: 10-12

Length: Spring Semester (2026-2027, 2028-2029)

Credit: .5

Prerequisite: Multimedia 1

Students in Multimedia II will continue to use digital images and videos to create production and presentations using advanced skills and industry-recognized software. Students will learn advanced skills in image editing, animation, file storage, digital audio/video editing, and planning for multimedia applications for use in multimedia production including broadcasting (recorded and live), interactive media, and computer animation. The topics of careers in multimedia and copyright/ fair use will also be discussed.

Business Law - RACTC

MIS03: 14090

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Students 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. We take a trip to Burleigh County Courthouse and discuss career opportunities in the field of law. This class uses discussion and lessons designed by the instructor based on the standards.

Web Design

MIS03: 14022

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Students will be introduced to a variety of ways to create and maintain web pages. Course topics will focus on overall production processes 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 the additional media inputs within a website.

Business Finance - RACTC

MIS03: 14016

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Prerequisite: Acct 1

Students will be introduced to business finances including running a business, keeping records, investing, credit, and making strategic decisions. Topics to be discussed include the accounting profession, financial reports, and compliance. Business organizations, law, personal finance, economics, marketing, and management. Students will use Everfi.com, NGPF.org, and other online resources. This class uses discussion and lessons designed by the instructor based on the standard and content.

Introduction to Cybersecurity - RACTC

MIS03: 27280 (23100 IF needed for Science Credit)

Grade Level: 12 (GU)

Length: Full Year

Credit: 1

This course provides foundational knowledge in computer science, digital literacy, and cybersecurity. Students learn how networks, hardware, software, and emerging technologies, such as AI and the Internet of Things, operate and impact everyday life. The course builds computational thinking skills through problem-solving, algorithm design, data analysis, and collaborative projects. Students also examine the legal, ethical, and societal effects of technology while practicing responsible digital citizenship and managing their online identity. Key cybersecurity concepts include identifying threats, protecting personal information, evaluating software updates, and applying basic security controls. This class equips students with essential skills for advanced technology courses and safe, effective participation in a digital world.

Word Processing

MIS03: 14096

Grade Level: 9-12

Length: Fall Semester

Credit: .5

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.

Spreadsheets

MIS03: 14025

Grade Level: 9-12

Length: Spring Semester

Credit: .25

This is a one-quarter course (9 weeks). Students will be creating a worksheet and embedded charts. Students will work with formulas, functions, formatting, and web queries. The final weeks, the students will do what-if analysis, charting, and working with large worksheets. At the end of each unit, the students will complete projects. They will create a final cumulative project for each unit.

Desktop Publishing

MIS03: 14098

Grade Level: 9-12

Length: Spring Semester

Credit: .25

This is a one-quarter course with the instruction being completed using Canva and Affinity/Photopea/Photoshop. Students will be working with images, graphics, design, and more. The students will create products for a company of their choice.

English Courses

Mrs. Voegele

English 9: Foundations of Literature and Composition

MIS03: 05071

Grade Level: 9

Length: Full Year

Credit: 1

English 9 offers a balanced focus on composing and reading a variety of informational and literary texts. Learners will engage with various aspects of genre structure, craft, and context. English 9 will develop critical thinking, effective writing, and application of research skills through inquiry and analysis. Various forms of communication will be embedded into the course, including discussion and written responses.

Focus Areas:

- Short stories, novels, drama, poetry
- Narrative and expository writing
- Grammar, vocabulary, and conventions

English 10: World Literature and Composition

MIS03: 05072

Grade Level: 10

Length: Full Year

Credit: 1

English 10 offers a balanced focus on composing and reading a variety of informational and literary texts. Learners will engage with various aspects of genre structure, craft, and context. English 10 will further advance critical thinking, effective writing, and application of research skills through inquiry and analysis. Various forms of communication will be embedded into the course, including discussion and written responses. Students also explore world literature while developing stronger writing and research skills.

Focus Areas:

- Global themes in literature
- Multi-Source Research Projects
- Grammar and Vocabulary

English 11: American Literature

MIS03: 05073

Grade Level: 11

Length: Full Year

Credit: 1

English 11 offers a balanced focus on composing and reading a variety of informational and literary texts. Learners will write for a variety of audiences and purposes. English 11 will strengthen critical thinking, effective writing, and public speaking. Various forms of communication will be embedded into the course, including discussion and written responses. English 11 emphasizes American literature.

Focus Areas:

- Foundational U.S. texts and modern works
- Public speaking and civic literacy
- Vocabulary and Grammar

English 12: British Literature and Senior Composition

MIS03: 05074

Grade Level: 12

Length: Full Year

Credit: 1

English 12 offers a balanced focus on composing and reading a variety of informational and literary texts. Learners will write for a variety of audiences and purposes, including writings that aim to prepare a learner to graduate Choice Ready. Learners will engage with various aspects of genre structure, craft, and context. English 12 will continue to strengthen and refine critical thinking, effective writing, and application of research skills through inquiry and analysis. Various forms of communication will be embedded into the course, including discussion and written responses. English 12 focuses on advanced reading, writing, and independent critical thinking skills.

Focus Areas:

- British literature and classic works
- College-level writing and revision
- Grammar and vocabulary

Health Courses

Mr. Krenske

Health 9

MIS03: 18010

Grade Level: 9

Length: Full year

Credit: .5

This course covers lessons in the McGraw Hill course book. These lessons include topics of interpersonal relationships, mental health, chemical usage, consumer and environmental health, family life and relationships, nutrition, control of diseases, and healthy decision-making skills.

Math Courses

Mrs. Wheeler

Pre-Algebra

MIS03: 11030

Grade Level: 9-11

Length: Full Year

Credit: 1

Prerequisite: Grade 7 Mathematics or teacher recommendation

Pre-Algebra Mathematics prepares students for the transition from arithmetic to algebraic thinking. The course focuses on strengthening number sense and introducing foundational algebra concepts. Topics include operations with integers, fractions, decimals, ratios and proportions, exponents, order of operations, algebraic expressions, linear equations, inequalities, basic geometry, measurement, and introductory statistics and probability. Students develop problem-solving strategies, logical reasoning, and mathematical communication skills through real-world applications and hands-on activities. Emphasis is placed on accuracy, conceptual understanding, and readiness for Algebra I.

Algebra I

MIS03: 11031

Grade Level: 9

Length: Full Year

Credit: 1

Prerequisite: Grade 8 Mathematics or teacher recommendation

Algebra I develops foundational algebra skills necessary for advanced mathematics. Students work with linear equations, inequalities, functions, and systems of equations. Topics include writing and interpreting expressions, graphing functions, and modeling real-world relationships. Students also study polynomials, factoring, and introductory quadratic equations. Emphasis is placed on problem solving, mathematical modeling, and multiple representations (graphs, tables, equations, and verbal descriptions).

Geometry

MIS03: 11120

Grade Level: 10

Length: Full Year

Credit: 1

Prerequisite: Algebra I

Geometry focuses on reasoning, spatial visualization, and formal mathematical proof. Students study congruence, similarity, triangle relationships, circles, and geometric constructions. Coordinate geometry connects algebra and geometry through slope, distance, and midpoint formulas. Measurement topics include area, surface area, and volume. Students also explore transformations and trigonometric ratios. Logical thinking, precision, and real-world applications are central to the course.

Algebra II

MIS03: 11032

Grade Level: 11

Length: Full Year

Credit: 1

Prerequisite: Geometry

Algebra II extends concepts from Algebra I to include more complex functions and algebraic reasoning. Students study quadratic, exponential, logarithmic, polynomial, and rational functions. The course includes solving equations and systems, modeling real-world situations, and interpreting function behavior. Additional topics may include sequences, series, and complex numbers. Emphasis is placed on problem solving, critical thinking, and preparation for higher-level math courses

Music Courses

Mr. Dellomas

Band

MIS03:

Grade Level: 9-12

Length: Full year or One Semester

Credit:

High School Band is a performance-based music course designed for Grade 7 through Grade 12 students who want to continue developing their instrumental skills while working collaboratively in a large ensemble. Students will rehearse and perform a wide variety of musical styles, including concert band literature, pep band music, and selected contemporary works.

Throughout the course, students will strengthen their tone quality, technique, sight-reading, rhythmic accuracy, and ensemble listening skills. Emphasis is placed on proper playing fundamentals, musical expression, and responsible rehearsal habits.

Participation in scheduled performances, concerts, music festivals, and school events is an essential component of the course. Students are expected to demonstrate commitment, cooperation, and respect for themselves, their peers, and the music. This course promotes teamwork, discipline, and confidence while providing students with meaningful performance experiences.

Choir

MIS03:

Grade Level: 9-12

Length: Full year or One Semester

Credit:

High School Choir is a performance-based course open to Grade 7 through Grade 12 students interested in developing their vocal skills and musicianship through ensemble singing. Students will rehearse and perform a diverse selection of choral music representing various musical styles, cultures, and historical periods.

Throughout the course, students will build healthy vocal technique, proper posture, breath control, diction, and tone quality. Instruction also includes music literacy skills such as sight-reading, rhythm, harmony, and basic music theory. Emphasis is placed on listening, blend, balance, and teamwork to create a unified choral sound.

Participation in concerts, rehearsals, and school or community performances is required for the course. Students are expected to demonstrate responsibility, cooperation, and a positive attitude during rehearsals. This course encourages confidence, collaboration, and artistic expression while fostering an appreciation for choral music and performance.

Physical Education Courses

Mr. Krenske

PE 9

MIS03: 08030

Grade Level: 9

Length: Full year

Credit: .5

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

Lifetime Fitness

MIS03: 08043 (Currently coded in PS as 08063 DPI Course Name Individual Dual Sports)

Grade Level: 9-12

Length: Full year or One Semester

Credit: .5

Individual/Dual Sports provides students with the knowledge, experience, and opportunity to develop skills in more than one individual or dual sport.

Science Courses

Ms. Rowland

3 Credits required (including biology, physical science and cyber security)

***NOTE: Both UND and NDSU recommend potential students having 4 credits of laboratory science for enrollment.

Physical Science

MIS03: 13030

Grade Level: 9

Length: Full Year

Credit: 1

Physical science combines two important topics in science: chemistry and physics. During the 1st semester, chemistry will be the focus. Chemistry is the science that deals with the composition, structure, and properties of substances and with the transformations that they undergo. During the 2nd semester, physics will be the focus. Physics is the science of matter and energy and the

interactions between the two. **This class is required by the state of North Dakota for graduation.**

Biology

MIS03: 13020

Grade Level: 10

Length: Full Year

Credit: 1

Biology is the study of life. This course focuses on four central themes: from molecules to organisms, ecosystems, heredity, and evolution. **This class is required by the state of North Dakota for graduation.**

Chemistry

MIS03: 13031

Grade Level: 11-12

Length: Full Year

Credit: 1

Chemistry is the science of matter and the changes it undergoes. Much of the material in this class you have seen previously in the first semester of your sophomore physical science course. Physical science serves as a foundation for this course. This course typically explores such concepts as atomic structure, the behaviors of solids, liquids, and gases, chemical formulas, and chemical reactions.

Anatomy and Physiology

MIS03: 13021/13022

Grade Level: 11-12

Length: Full Year

Credit: 1

Anatomy is the study of human structure, and physiology refers to how these structures work. This course will provide a survey of the structure of the systems of the body and how these systems work together to carry out life's necessary functions. In addition, this course will take a glance at what happens when structures don't function accordingly or when things "simply go wrong." This class has hands-on activities/labs, projects, and critical thinking.

Ecology

MIS03: 13110

Grade Level: 11-12

Length: Full Year

Credit: 1

Ecology is a relatively newer branch of science. It is the same as Environmental Science. It focuses on the study of air, water, and land surrounding an organism or a community. A major focus of this class is the impact the everyday decisions that humans make have on the environment. The entire goal of environmental science is to understand and solve environmental problems.

Physics

MIS03: 13042

Grade Level: 11-12

Length: Full Year

Credit: 1

Physics is the science of matter and energy and the interactions between the two. The physics you experienced in physical science your sophomore year serves only as a small basis of what you will experience in a physics class. ALL students should have completed Algebra I , Geometry, and/or Algebra II when entering this course. This class will cover topics such as forces and motion, energy, and thermodynamics. You must have a good understanding of math to be successful in this class. This class is only offered if enough students enroll.

Social Studies Courses

Ms. Ticar

World History

MIS03: 15089

Grade Level: 10

Length: Full Year

Credit: 1

This course examines major civilizations, ideas, and global interactions from ancient times to the modern era. Students explore themes such as culture, power, religion, trade, conflict, and technological change. Through primary sources and historical inquiry, students develop critical thinking skills and gain a deeper understanding of how the past shapes today's world.

US History 2

MIS03: 15085

Grade Level: 11

Length: Full Year

Credit: 1

This course continues the study of American history from the Civil War to the present. Students investigate the Civil War, industrialization, immigration, reform movements, world wars, the Cold War, civil rights, and contemporary issues. The course builds historical thinking skills through source analysis, discussion, and project-based learning while emphasizing citizenship and civic responsibility.

Problems of Democracy

MIS03: 15021

Grade Level: 12

Length: Full Year

Credit: 1

This civics-based course focuses on the principles and challenges of democratic government at local, national, and global levels. Students analyze constitutional rights, civic responsibilities, public policy, media literacy, and contemporary political issues. Emphasis is placed on respectful dialogue, informed decision-making, and active citizenship.

RACTC

Agriculture

Livestock Production

MIS03: 01061

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online/ITV 11:11-12:00 CT +1 regional competency-based skills lab day

Livestock Production is a fully online, asynchronous course that prepares students for careers in animal science and livestock production, including beef and dairy cattle, swine, sheep, goats, and poultry. Students study anatomy and physiology, nutrition, reproduction, health, genetics, and management practices used in modern animal agriculture. The course covers livestock breeding, emerging technologies, commodity markets, and the U.S. role in global production. Students practice animal identification, safe restraint, basic veterinary procedures, and disease prevention and control. This class provides a strong foundation for students interested in production agriculture, veterinary science, and related fields.

Vet Science

MIS03: 01067

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online +1 regional competency-based skills lab day

Vet Science is a fully online, asynchronous course, designed to introduce students to careers in animal science and veterinary-related fields. Students explore veterinary practices for both large and small animals, including animal health, anatomy, behavior, nutrition, disease prevention, parasites, and basic clinical care. The course emphasizes animal welfare, safety, biosecurity, and the ethical and legal responsibilities of veterinary professionals while building critical thinking and problem-solving skills through virtual labs, case studies, and applied projects. This flexible, asynchronous format allows students to work at their own pace while preparing for post-secondary education or careers in veterinary science and animal care.

Wildlife and Natural/ Environmental Resources (ENR)

MIS03: 01063

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

In this course, you will explore the major ideas that shape modern agriculture, wildlife management, and natural resource conservation. A major part of this course involves interactive labs and inquiry-based investigations. You will conduct wildlife-focused labs such as scoring antlers, identifying large game animals, and studying upland bird species. These labs will help you better understand wildlife behavior, habitat needs, and management practices used by professionals in the field. You'll also use technology and computer applications that are essential in modern agriculture and natural resource careers.

Agronomy

MIS03: 01025

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual credit is available through Dickinson State University (World Food Coops)

Agronomy/Plant Science is a comprehensive course designed to introduce students to the scientific principles and real-world practices involved in crop production, plant growth, and sustainable land management. Students will explore the biology of plants, soil science, crop classification, plant health, and the environmental factors that influence agricultural systems in North Dakota and beyond. Emphasis is placed on understanding how producers manage resources, improve crop yield and quality, and make decisions using data-driven, research-based agronomic practices.

Small Animal Care

MIS03: 01066

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

This course introduces students to the care and management of small animals, including small mammals, reptiles, amphibians, birds, dogs, and cats. Students learn responsible ownership, domestication, industry impacts, and safety hazards such as disease transmission and chemical handling. The course covers animal rights and welfare, species characteristics, breeds, housing and habitat needs, nutrition, and safe handling techniques. Students also use laboratory equipment to perform basic procedures and apply practical skills in small animal care.

Equine Science

MIS03: 01062

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

This course provides hands-on skills and foundational knowledge for working with horses, donkeys, and mules. Students learn animal selection, basic anatomy, nutrition, daily care, safe handling, and facility design. Lab activities include aging horses by their teeth, evaluating hoof health, performing basic hoof care, and measuring vital signs. The course also covers current industry issues, the use of biotechnology, and key employability skills such as communication, safety, and record keeping.

Agriculture Welding and Fabrication

MIS03: 01046/01047

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 3 regional competency-based skills lab days per semester

Students will participate in scheduled hands-on lab days at the **Southwest Career & Technical Education Center (SWCTE)**. These lab experiences allow students to practice welding techniques on industry-standard equipment, complete guided projects, and develop real-world shop skills under professional supervision.

This course introduces students to the fundamentals of the welding industry through classroom instruction and hands-on practice. Students learn workplace and equipment safety, PPE use, and shop procedures aligned with OSHA standards. Topics include welding theory, metal properties, blueprint reading, welding symbols, and weld inspection. Students gain experience with SMAW, GMAW, FCAW, GTAW, oxyfuel cutting, and plasma cutting. Emphasis is placed on technical accuracy and employability skills. Welding Technology I provides the foundational knowledge and skills needed for advanced welding courses and future training or employment.

Architecture & Engineering

Architecture & Engineering 1

MIS03: 10514

Grade Level: 9-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab day per semester

Architecture & Engineering I is a fully online, asynchronous course that introduces students to how ideas become real-world designs. Students will learn to use industry-standard CAD (Computer Aided Drafting) software to create technical drawings used in architecture,

engineering, and design fields. Through self-paced lessons and guided projects, students will develop foundational skills in both 2D and 3D design, learning essential CAD commands and design principles. This course is well-suited for students who enjoy problem solving, creativity, and technology, and who are motivated to manage their learning independently in an online environment. Students will need a laptop that can run the CAD program effectively.

Building Trades

Operating Engineers Pathway

Through this unique partnership with the BASC and the IOUE Local 49, students can take 4 semester courses that earn high school elective credits while getting the necessary training to enter the Operating Engineers Apprenticeship Program following graduation.

MUST BE TAKEN IN SEQUENTIAL ORDER

Construction Explorations

MIS03: 37020

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + a minimum of 1 regional competency-based skills lab day

This course provides students with an introduction of the basic equipment used in the construction Industry. Students learn about basic equipment operations and job responsibilities. This course prepares students to use concepts pertaining to safety, maintenance, mathematics and communication that Operating Engineers may experience.

Basic Grade & Construction Math

MIS03: 37170

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + a minimum of 1 regional competency-based skills lab day

In the construction industry, grading is the work of ensuring a level base, or a grade with a specific slope. Grade construction work is needed in almost any building project, from laying a building foundation, to landscaping, or even roadwork. In this course, you will be introduced to core equipment used in the staking process, as well as Personal Protective Equipment (PPE) used in the construction industry. Communication processes used in the construction industry for interpreting and setting grade are also an important part of this course. Finally, you will learn mathematical concepts related to the construction industry for grade staking.

Basic Construction Equipment Fundamentals

MIS03: 17200

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + a minimum of 1 regional competency-based skills lab day

In the construction industry, the proper use of heavy equipment is necessary to ensure quality work and a safe work environment. In addition, being able to recognize and determine the use of specific heavy equipment, will create a more efficient work team. Heavy equipment is used in almost any construction project, from building a house to excavating for a new road. In this course, you will be introduced to core equipment used by operating engineers, as well as their maintenance needs. Communication processes used by operating engineers, rigging and signaling practices, safety awareness and mathematical concepts related to the construction industry are also covered.

Basic Maintenance of Mobile Equipment

MIS03: 17201

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + a minimum of 1 regional competency-based skills lab day

This course focuses directly on maintenance of mobile equipment through a series of engaging tutorials. A major focus of the course is on maintenance safety including such topics as LOTO. Other topics include tools and fasteners, preventative maintenance principles, engines, intake and exhaust, fuel systems, coolant systems, filters and filtration, lubrication systems, hydraulics, electrical systems, tires, and tracks and undercarriages.

Business

Accounting I

MIS03: 14010

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online

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

MIS03: 14011

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online

Prerequisite: Acct 1

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

MIS03: 14012

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online

Prerequisite: Acct 1 and Acct 2

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

MIS03: 14013

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online

Prerequisite: Acct 1, 2, 3

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.

Business Finance (14016)

MIS03: 14016

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online

Students will be introduced to business finances including running a business, keeping records, investing, credit, and making strategic decisions. Topics to be discussed include the accounting profession, financial reports, and compliance. Business organizations, law, personal finance, economics, marketing, and management. Students will use Everfi.com, NGPF.org, and other online resources. This class uses discussion and lessons designed by the instructor based on the standard and content. Google Classroom is used for our interactive notebook and organization of projects.

Business Law (14090)

MIS03: 14090

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Students 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. We take a trip to Burleigh County Courthouse and discuss career opportunities in the field of law. This class uses discussion and lessons designed by the instructor based on the standard and content. Google Classroom is used for our interactive notebook and organization of projects.

Health Science

Introduction to Health Science

MIS03: 37080

Grade Level: 9-12

Length: Fall of Spring Semester

Credit: .5

Instructional Method: Online/ ITV + 1 regional competency-based skills lab day

The intro to health science is a semester-long, entry-level course designed for students interested in exploring careers in the healthcare field. The course introduces foundational concepts essential to health science pathways, including the history and trends of healthcare, a broad overview of healthcare careers, and the personal and professional qualities expected of healthcare workers such as communication, responsibility, teamwork, and professionalism. Students also develop practical skills, including the use of the 24-hour (military) clock, and are introduced to basic anatomy and physiology to build an understanding of the structure and function of the human

body. Through interactive lessons, applied learning, and career-focused activities, students gain foundational knowledge and career awareness to support future coursework and pathways in health science.

Health Science I

MIS03: 07033

Grade Level: 10-12

Length: Full Year

Credit: 1

Prerequisite: C or better in most recent science course.

Dual Credit is available through Bismarck State College

This 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. The student will explore various health careers throughout the course. Emphasis on academics, professional development, leadership, and organizational skills are integrated into the curriculum.

Medical terminology

MIS03: 07036

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online/ ITV

Dual Credit is available through Dickinson State University and Bismarck State College

This course is designed to introduce students to medical language used in the health care field. Students will learn prefixes, suffixes, and root words for medical terms. This will include meanings, spellings, and pronunciations. Emphasis on building a working medical vocabulary based on the body system. Anatomy and physiology of major organs, pathological conditions, laboratory studies, clinical procedures and abbreviations for each body system.

Emergency Medical Responder (07045)

MIS03: 07045

Grade Level: 10-12

Length: Fall or Spring Semester

Credit: .5

Instructional Method: Online/ ITV + 2-3 regional competency-based skills lab days

Dual Credit is available through Bismarck State College

The EMR course is an introductory competency-based course and follows a curriculum that will be used as a guide to the appropriate procedures to be used when rendering emergency care to the sick and injured. The procedures and protocols that are learned are based on the most current standards of credentialed medical sources. If all course requirements are met, students have the ability to be certified and licensed as an Emergency Medical Responder through the North

Dakota Emergency Medical Services. Students will also obtain their American Heart Association Basic Life Support (BLS) certification.

It is recommended students taking the EMR course turn 16 prior to the completion of the course.

Introduction to Sports Medicine (07034)

MIS03: 07034

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online/ ITV + 1 regional competency-based skills lab day per semester with 6 hours of job shadow

Dual Credit is available through Dickinson State University and Bismarck State College

In this course students who are interested in athletics and the medical needs of athletes will cover four distinct disciplines which will allow them to grasp the concepts of anatomy and physiology, and then apply them to sports medicine and athletic training. Students will be assigned to job shadow an athletic trainer or other professionals in sports medicine during this course. American Heart Association BLS and First Aid Certification upon completion of the class.

Certified Nurse Aide

MIS03: 07032

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online/ ITV + 4 regional competency-based skills lab days per semester with 24 hours of job shadow

Prerequisite: Health Science I and recommendation

Dual credit is available through Dickinson State University and Bismarck State College

This course provides instruction to those interested in becoming a Certified Nurse Aide. Students must obtain 16 hours of direct supervised instruction by an RN. This course teaches fundamental nursing skills performed by a Certified Nurse Aide, employability skills, communication, legal responsibilities, ethics, safety, teamwork, health maintenance practices, information technology, and medical terminology. Students are given supervised practical training and prepare for employment in various clinical settings. American Heart Association BLS Certification upon completion of the class. NDDOH State CNA certification test eligibility at the end of the class.

Important Information: Students will no longer be able to “challenge” the ND state test. Students must complete a state-approved education program to be eligible for state testing.

Health Occupation Experience Program

MIS03: 07999

Grade Level: 11-12

Length: Full Year

Credit: 1 (not to exceed 4 credits while in high school)

Instructional Method: Online, In-Person, and On-the-Job Training

This course provides students with a regularly scheduled, supervised employment or internship opportunity related to a health career. The placement 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 work experience agreement among all partners (school, employer or clinical site, student, and parent/guardians) outlining the expectations of each party. The instructor shall also develop a specific training plan with the employer or clinical site 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. Students must be at least 16 years old and may be paid a wage by the employer.

****The Work-Based Learning Application must be filled out completely and submitted.**

Please note not all students will be accepted. Content areas: Dental Assisting, Pharmacy Tech., Direct Support Staff (Able, Inc.), EMT, CNA, ATC, and any other health related areas of interest may be accommodated for internships if placement is possible. (Example: PT, OT, Speech Therapy, Lab, Vet, EMS etc.)

Dental Assisting: The students will be paired with a local dentist for a two-year commitment of approximately 3 hours of job-shadowing a week. This course consists of online academic modules and on-the-job shadowing and training. Once the course requirements such as passing the ICE, AMP, and RHS certification exams are met and job shadowing hours (300 hours total) are obtained the student will have the opportunity to apply for North Dakota licensure as a Qualified Dental Assistant. Apply your sophomore year for consideration.

Certified Nursing Assistant: (Different from the in-person CNA course offered). The student is hired as an employee at a nursing home. Students will be expected to show up for scheduled shifts, meetings, and other job requirements, and complete assigned work tasks.

Direct Support Staff: The student is hired as an employee of Able, Inc. to provide support to people with disabilities in all aspects of their lives. Students will be expected to show up for scheduled shifts, meetings, and other job requirements and complete assigned tasks.

Pharmacy Technician: The student is hired as an employee of Clinic Pharmacy or Medicine Shoppe Pharmacy. The course consists of online academic modules and on-the-job experience. (160 hours total). Upon completion of course requirements, the student will obtain the Certified Pharmacy Technician certification.

Firefighter 1 (07100)

MIS03: 07100

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab day per semester

This course provides high school students with an introduction to the essential skills and knowledge needed for a career in firefighting. Students will learn fire safety, fire suppression techniques, search and rescue operations, hazardous materials awareness, and basic emergency response protocols. This hybrid course combines online learning modules and hands-on skills training. Online coursework covers key concepts, while skills days are held approximately once per month to provide students with practical, in-person training. This course is designed to prepare students for further certification in fire services and is ideal for students interested in pursuing a career in emergency response or firefighting. Students must be at least 16 years old and able to attend five full-day hands-on training sessions each semester (10 total).

Enrollment for this course is limited to 10 RACTC students due to a collaborative partnership with the Dickinson Fire Department and Southwest CTE (SWCTE). Additional fees associated with this course may be required, up to \$750. Registration for college credit may be available: FIRE 101 / FIRE 101L through Dickinson State University.

Family Consumer Science

Child Development (09026)

MIS03: 09026

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Child Development is a fully online, asynchronous course that explores how children grow and develop from prenatal stages through early childhood. Students will examine how children learn, identify age-appropriate activities, and study family development and preparation for parenthood. Additional topics include prenatal development, changing family relationships, current issues affecting children and families, and available community support systems. Through self-paced lessons, interactive activities, and applied projects, students will gain foundational knowledge useful for careers in education, healthcare, human services, and related fields. This course is ideal for students who are interested in working with children or supporting family well-being in an independent online learning environment.

Information Technology

Cybersecurity (27280)

MIS03: 27280

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online

This course provides foundational knowledge in computer science, digital literacy, and cybersecurity. Students learn how networks, hardware, software, and emerging technologies, such as AI and the Internet of Things, operate and impact everyday life. The course builds computational thinking skills through problem-solving, algorithm design, data analysis, and collaborative projects. Students also examine the legal, ethical, and societal effects of technology while practicing responsible digital citizenship and managing their online identity. Key cybersecurity concepts include identifying threats, protecting personal information, evaluating software updates, and applying basic security controls. This class equips students with essential skills for advanced technology courses and safe, effective participation in a digital world.

Computer Science 1 (10810)

MIS03: 10810

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online

Computer Science I is a fully online, asynchronous course designed to introduce students to computational thinking, coding fundamentals, and digital problem solving. Students will work through self-paced modules exploring topics such as basic programming, app development, data visualization, cybersecurity concepts, and simulations. The course emphasizes logical thinking and real-world applications of computer science through interactive projects and problem-based learning. This course is ideal for students interested in technology and innovation who are comfortable working independently in an online learning environment.

Trade and Industrial

Electrical Technology

MIS03: 17125

Grade Level: 11-12

Length: Full Year

Credit: 1 (opportunity to earn an additional 1 Credit through work-based learning)

Instructional Method: Online + 2 regional competency-based skills lab days per semester

This course provides foundational knowledge and skills for students pursuing a future career as an electrician. It combines online instruction with optional hands-on lab sessions, depending on

location and scheduling. Students learn about construction trades, apprenticeships, safety practices, financial responsibility, and hazard prevention. The curriculum covers the electrical workplace, tools and materials, insulated conductors, anchors, fasteners, and basic electrical theory with a focus on direct current. Students also learn to navigate the National Electrical Code and interpret construction drawings, including 2D and 3D blueprints. This course is ideal for motivated, independent learners interested in electrical careers.

Welding Technology 1

MIS03: 17236

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 3 regional competency-based skills lab days per semester

Students will participate in scheduled hands-on lab days at the Southwest Career & Technical Education Center (SWCTE).

These lab experiences allow students to practice welding techniques on industry-standard equipment, complete guided projects, and develop real-world shop skills under professional supervision.

This course introduces students to the fundamentals of the welding industry through classroom instruction and hands-on practice. Students learn workplace and equipment safety, PPE use, and shop procedures aligned with OSHA standards. Topics include welding theory, metal properties, blueprint reading, welding symbols, and weld inspection. Students gain experience with SMAW, GMAW, FCAW, GTAW, oxyfuel cutting, and plasma cutting. Emphasis is placed on technical accuracy and employability skills. Welding Technology I provides the foundational knowledge and skills needed for advanced welding courses and future training or employment.

Work-Based Learning (WBL)

Work-Based Learning

MIS03:

Grade Level: 11-12

Length:

Credit:

Instructor: Kathrein

Provides students with a regularly scheduled, supervised employment opportunity related to Trade and Industrial Occupations 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 Trade and Industrial Education program area. There shall be a training agreement among all partners regarding 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 assessing student progress and 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.

CRACTC

Advanced Manufacturing

DC Electronics **NEW**

MIS03: 17150

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 5 regional competency-based skills lab days

Prerequisite: High School Credit Only: Students MUST complete the Intro to Advanced Manufacturing course. Dual Credit Enrollment: The prerequisite is not required if the student is taking this course for dual credit. Please recognize that students taking this course for dual credit will be expected to follow all college level expectations and timeframes!

Dual credit is available through Bismarck State College; ELEC 100/100L (5 college credits) toward a Mechatronics I Certificate.

Get ready to power up your future in Advanced Manufacturing! In this online-hybrid course you'll explore how current, voltage, and resistance work together to bring electronic systems to life. You'll read and build from real schematics, investigate how DC circuits function, and apply your skills through interactive online lessons. Then, take your learning to the next level during five in-person learning lab days at Bismarck State College's brand-new Advanced Technology Center, where you'll test your circuits, use professional equipment, and experience college-level engineering in action. This course is a critical step toward earning stackable credentials, including the Mechatronics I Certificate or an AAS Degree in fields like Industrial Automation and Robotics, Energy Services and Renewable Generation, or Mechanical Maintenance Technology. **THE FIVE LAB DAYS ARE REQUIRED FOR HIGH SCHOOL OR DUAL CREDIT ENROLLMENTS REGARDLESS OF SCHOOL LOCATION; NO EXCEPTIONS, NO ALTERNATE ASSIGNMENTS PROVIDED!**

AC Electronics **NEW**

MIS03: 17150

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 5 regional competency-based skills lab days

Prerequisite: High School Credit Only: Students MUST complete the Intro to Advanced Manufacturing course. Dual Credit Enrollment: The prerequisite is not required if the student is taking this course for dual credit. Please recognize that students taking this course for dual credit will be expected to follow all college level expectations and timeframes!

Dual credit is available through Bismarck State College; ELEC 120/120L (5 college credits) toward a Mechatronics I Certificate.

Take your engineering skills to the next level as you dive into the dynamic world of AC circuits! In this exciting, college-level course, you'll explore decibels, complex numbers, RC/RI/RLC circuits, resonance, and both passive and active filters; core concepts that power everything from audio systems to advanced manufacturing equipment. Through interactive online lessons, you'll learn how AC systems behave, respond, and perform in real-world applications. Then, during required hands-on lab/lecture sessions, you'll bring the theory to life as you test circuits, analyze signals, and work with professional tools just like industry technicians and engineers. **THE FIVE LAB DAYS ARE REQUIRED FOR HIGH SCHOOL OR DUAL CREDIT ENROLLMENTS REGARDLESS OF SCHOOL LOCATION; NO EXCEPTIONS, NO ALTERNATE ASSIGNMENTS PROVIDED!**

Agriculture

Welding and Fabrication I

MIS03: 01046

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 5 regional competency-based skills lab days

Students are expected to attend 4–6 scheduled face-to-face, hands-on learning days as part of this course. Location will be within the CRACTC membership region and will be based on geographic locations of enrolled students.

The Welding and Fabrication I curriculum is designed to develop student's 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; Gas metal arc welding and plasma arc cutting. Safety and metal fabrication as well as recordkeeping, leadership, communications, employability and human relations skills will also be emphasized. 20-25 hours of supervised hands-on welding lab instruction will occur within the course (required to attend to successfully complete the course).

Students will meet at a centrally located selected welding lab/facility for the hands-on supervised welding instruction part of this course. Travel to/from the facility will be the responsibility of the local school. Welding/Fabrication I is preferred but not required to enroll in Welding/Fabrication II.

Welding and Fabrication II

MIS03: 01047

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + regional competency-based skills lab day

Students are expected to attend 4–6 scheduled face-to-face, hands-on learning days as part of this course. Location will be within the CRACTC membership region and will be based on geographic locations of enrolled students.

This curriculum is designed to develop student’s 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: Plasma cutter, CNC plasma cutter, TIG, aluminum MIG, metal turning lathe, shear/break/role, hydraulic “Ironworker”, and plastic welder. Safety and metal fabrication as well as record keeping, leadership, communications, employability and human relations skills will also be emphasized. 20-25 hours of supervised hands-on welding lab instruction will occur within the course (required to attend to successfully complete the course). Students will meet at a centrally located selected welding lab/facility for the hands-on supervised welding instruction part of this course. Travel to/from the facility will be the responsibility of the local school.

Aviation

Aviation I

MIS03: 17812

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online + 2 regional competency-based skills lab days per semester

This is the entry level course to prepare students for employment in the aviation industry. The course covers flight fundamentals, 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 II

MIS03: 17813

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 2 regional competency-based skills lab days per semester

Prerequisite: Aviation I

This course will cover advanced flight topics as well as expanding topics covered in Aviation I. It will also expand on career exploration based on student aviation interests such as pilot, mechanic, air traffic control, airport management, etc. An Introduction to Unmanned Aircraft Systems (UAS) will also be included. Students will be preparing to pass the Federal Aviation Administration (FAA) private pilot written exam.

Aviation Mechanics

MIS03: 17820

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online + 2 regional competency-based skills lab days per semester

If you love working with your hands and have a passion for mechanics, the Aviation Mechanics course is the perfect way to jumpstart your career in the high-wage, high-demand aircraft maintenance profession. This hands-on program follows the latest FAA Mechanic Airman Certification Standards (ACS), focusing on the general knowledge, skills, and risk management strategies needed for FAA mechanic certification—without covering airframe or powerplant subjects. You'll learn the fundamentals of aviation systems, tools, and safety practices, preparing you for real-world maintenance work. Plus, you'll have the opportunity to earn the ATEC General Aviation Maintenance Credential, proving your expertise and dedication to the field. If you're ready to turn your mechanical skills into a high-demand career, this course is your first step!

Business

Business Management

MIS03: 14231

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

This course transforms traditional business principles into real-world applications. From planning and organizing projects to building strong teams and making impactful decisions, you will gain practical experience in what it takes to lead effectively in today's dynamic workplace.

Whether you are planning to run your own business, lead a team, or simply stand out in any future career, this course gives you the beginning tools and confidence to succeed.

Business Management II NEW

MIS03: 14232

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

This course transforms traditional business principles into real-world applications. From planning and organizing projects to building strong teams and making impactful decisions, you'll gain practical experience in what it takes to lead effectively in today's dynamic workplace. You'll explore how businesses are structured, how managers motivate and support people, and how ethical decision-making shapes modern organizations. Dive into hands-on activities focused on human resources, financial decision making, industry trends, markets and prices, and the role of organized labor. You'll also learn how technology and information management drive smarter operations in today's fast-moving world. Whether you dream of running your own business, leading a team, or simply standing out in any future career, this course gives you the tools, insights, and confidence to succeed.

Business Communications NEW

MIS03: 14060

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Step into a course that helps you communicate with confidence, everywhere from the classroom to your first job! In Business Communications, you'll sharpen your writing, speaking, listening, and teamwork skills through real-world projects, digital tools, and interactive online modules. Learn how to craft clear and professional messages, present your ideas with impact, and collaborate like a pro in today's fast-paced workplace. Whether you're launching a business, stepping into leadership, or simply want to level up your communication game, this course gives you the skills to stand out.

Business Law

MIS03: 14090

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Discover how the laws that shape our society impact your daily life and future ambitions within the business world. In Business Law, you will explore our legal system, learning how laws are developed, enforced, and applied in real-world scenarios including ethics contracts, personal and commercial property, sales, risk management, and much more! Whether you are planning to own

a business, pursue a legal career, or just want to make smarter decisions, this class give you practical knowledge you can use in your future.

Family and Consumer Science

Family and Consumer Science I

MIS03: 09022

Grade Level: 9-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab days per semester

This exploratory course is highly recommended for students as an introduction to the other Family and Consumer Science (FACS) courses offered; especially 9th grade students. Students will learn about necessary everyday life skills they can use today and in their future. It includes basic information and discussion on each topic of FACS. Main concepts provided throughout the course will include the basic understanding of the purpose of family and care of children, dating and teen parenting, communication and goals, nutrition and wellness, personal finance, and clothing care and construction. Hands-on projects during the course may include: cross-stitching, hand sewing, balancing finances, and food prep and nutrition.

Independent Living

MIS03: 09025

Grade Level: 10-12

Length: Fall or Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

For a student who is looking forward to being on their own, taking this course will help you avoid some common problems. Learn how to make big decisions, build a resume that will help you stand out, find ways to discover a career you enjoy, learn how to handle your money (taxes, investing, loans and more)! As well as, insurance, making large purchases like a car or a home, renting, finding a roommate, making healthy food choices, and proper clothing care are some of the topics covered in this class designed to make living independently easier!

Child Development

MIS03: 09026

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

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. Students will put into practice

what child development experts know will help children be happy, stay safe, and reach their full potential. Students will get an opportunity to practice caring for a child by taking home a RealCare baby for a period of 2-4 days.

Parenting

MIS03: 09130

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

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” baby for a period of 2-4 days.

Family Living

MIS03: 09132

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Every one of us is a part of a family and each family is different. Many students will be forming their own new families before too long. This course is about how families function and how they have changed over time. The value of healthy families, not only to the individual family members but to society as a whole, is the primary focus of this class. Learn what contributes to a stable and meaningful family.

Housing and Interior Design

MIS03: 09133

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

The learning experiences in this course are planned to help the students recognize family needs and values as they pertain to housing. Students will evaluate factors for selecting and financing housing, furnishings and appliances. The “design your dream home” final project is a way for students to use their learned knowledge of color, furnishings and design. Other topics covered are floor plans, historic housing styles, and housing related careers. The course utilizes exciting, yet time intensive project-based curriculum. Schools and/or students will need to purchase additional materials/supplies for enrolled students in this course (approx. cost per student: \$30-50).

Nutrition and Wellness

MIS03: 09137

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

This course is designed for all students concerned about nutrition and fitness and will explore such topics as sports nutrition in relation to performance, decision making and personal goal setting and stress management in relation to personal needs. Meal planning, fast foods, restaurant dining, family practices, genetically altered foods, weight loss and gain and current nutrition guidelines may be components of this course. Students will learn to read and interpret labels in relation to their dietary needs. Personal wellness and a healthy lifestyle will be the basis for lab experiences. There is a possibility of additional food expenses. Strongly encourage that either FACS I or Independent Living be taken prior.

Exploring the Teaching Profession I

MIS03: 09041

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Have you had a teacher make a positive impact on your life? Have you ever thought about possibly becoming a teacher yourself? Exploring the Teaching Profession course will give students who are interested in becoming teachers a running start into the profession. The course will expose students to and provide first-hand experiences in the duties of a teacher including, classroom management, student behavior, leadership and human relations skills, assessment of student progress, teaching strategies, and various career opportunities in the field of education. Schools and/or students will need to purchase additional materials/supplies for enrolled students in this course. (approx. cost per student: \$30-50)

*Coordination with local school administrators and teachers to complete local clinical hours is required.

**Student transportation may be required to complete clinical hours if the school district has multiple buildings throughout your community/region.

Exploring the Teaching Profession II

MIS03: 09042

Grade Level: 11-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Prerequisite: Exploring the Teaching Profession I

Free Dual Credit through a grant at the University of Mary will be available for Spring Semester. Must be enrolled in both Fall and Spring Semesters to qualify.

Building on the foundational concepts introduced in Exploring the Teaching Profession I, this second semester course takes students deeper into the art and science of effective teaching. Students will explore advanced instructional strategies, lesson design models, and formative and summative assessment practices that drive meaningful student learning. Emphasis will be placed on classroom management theories, positive behavior supports, and creating inclusive, culturally responsive learning environments. Through structured observations, micro-teaching experiences, and reflective practice, students will apply professional teaching techniques and analyze real classroom scenarios. This course is ideal for students interested in education careers and seeking authentic, hands-on preparation for future teacher education programs. Schools and/or students may need to purchase additional materials or supplies for this course (approx. cost per student: \$30–50).

Work-Based Learning options for additional credit are available if a student completes both Exploring the Teaching Profession I & II. Students who wish to continue with classroom learning experiences may sign up for a work-based learning experience. For more information please contact kimberly.jensen@k12.nd.us

*Coordination with local school administrators and teachers to complete local clinical hours is required.

**Student transportation may be required to complete clinical hours if the school district has multiple buildings throughout your community/region.

Graphic Arts

Graphic Design and Photography I

MIS03: 17072

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab day per semester

This intro course covers the basics of graphic design and photography. Students will learn key design principles and photo composition, capturing their own images and enhancing them with Adobe Photoshop. They'll experiment with digital collages, double-exposure effects, and more. Students will also use Adobe Illustrator to create posters, logos, and character designs while developing their skills in layout and visual communication, setting the stage for Graphic Design & Photography 2.

Graphic Design and Photography II

MIS03: 17073

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab day per semester

Prerequisite: Graphic Design and Photography I

Building on the skills from Graphic Design & Photography 1, this advanced course helps students refine their design and photography abilities. Students will dive into more complex design principles, advanced layouts and photo editing. Projects include creating branding packages, multi-layered digital compositions, and professional designs for real-world use. Using Adobe Photoshop and Illustrator, students will work on projects that prepare them for a career in design and photography while building a strong portfolio.

Health Science

Health Science I

MIS03: 07033

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online OR 4th period ITV- 11:03-11:53 CT + 2 regional competency based skills lab days per semester

Dual Credit is available through Bismarck State College during Spring semester. Must be in 10th Grade to enroll in dual credit courses.

This year-long course provides students with information relating to the educational and professional requirements for the various medical careers. Students will also study the fundamentals of disease transmission and prevention, basic anatomy and physiology, and medical terminology. Students will complete CPR/AED for the Professional Rescuer and American HeartSaver First Aid. Two hands-on learning experiences are required and may necessitate travel to an alternate location. Additionally, there is an optional field trip to explore health science at ND college/universities. 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.

Health Science II

MIS03: 07035

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab day per semester

Prerequisite: Health Science I

This course will expand on the knowledge gained in Medical Careers. Students will have the opportunity to explore various medical careers through research, professional guest speakers, college tours and potential job shadows. The curriculum is designed to enhance student employability skills and professional medical career readiness. Requirements for job shadowing: up to date vaccinations, including influenza and TB test are required per hospital/clinics/other healthcare facility policies. All students must have a background check. The school/student is responsible for necessary vaccinations and transportation to clinical sites. *School/student may be responsible for additional course fees including name tag/polo shirt for tours/job shadows,

and/or additional registration fees per hospital/clinic job shadow policies/expectations; approximate cost \$35/student.

Medical Terminology

MIS03: 07036

Grade Level: 10-12

Length: Fall or Spring Semester

Credit: .5

Instructional Method: Online

Dual Credit is available through Bismarck State College. Must be in 10th Grade to enroll in dual credit courses.

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 also be expected to use correct spelling and pronunciation of medical terms they have learned and will learn commonly used medical abbreviations.

Certified Nursing Assistant

MIS03: 07032

Grade Level: 11-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 5 regional competency-based skills lab days

Prerequisite: Health Science I from a ND State Approved CTE Center

Dual credit is available through Bismarck State College (NURS 100).

This Certified Nursing Assistant Training program offers online instruction to prepare students for employment as a Certified Nursing Assistant in a skilled nursing facility, acute care or home health care. This North Dakota Department of Health-approved course provides students with the necessary curriculum and supervised skills training to take the state certification test through Headmaster to become a Certified Nursing Assistant. Students must meet the state-required hours by completing online assignments and attending all MANDATORY hands-on days.

Important Information: Students will no longer be able to “challenge” the ND state test. Students must complete a state-approved education program to be eligible for state testing.

Emergency Medical Technician

MIS03: 07045

Grade Level: 12

Length: Full Year

Credit: 1

Instructional Method: Online + 5 regional competency-based skills lab days per semester

Prerequisite: Certified Nursing Assistant or Emergency Medical Responder (EMR)

Additionally, must complete a ride-along with an approved EMT provider PRIOR TO STARTING CLASSES NEXT FALL to ensure student is committed to all components of the course. -Please contact instructor amy_kruger@bismarckschools.org for more information and ride-along form!

Dual Credit will be available through Bismarck State College during Spring semester (must take full year course to qualify). Please recognize that students taking this course for High School or College dual credit will be expected to follow all college level expectations and timeframes; no alternative assignments provided!

Take another step toward an exciting healthcare career by enrolling in the Emergency Medical Technician (EMT) course! This online/hybrid program teaches life-saving skills like CPR and prepares you to handle real emergencies such as heart attacks, auto accidents and more. You will train with advanced equipment under the guidance of experienced paramedics and gain valuable insights from professionals in the field. Upon successful completion of the course, you will be eligible for ND State licensure testing and have the knowledge and experience to explore a variety of healthcare careers. We strive to work with qualified regional ambulance services for the hands-on skills training requirements in order to help reduce student travel and connect students with their local ambulance services. Don't miss this opportunity to build your future while learning how to make a real difference in your local community and region!

TEACHER VIRTUAL CHECK-INS, SKILLS LAB DAYS & AMBULANCE RIDE ALONGS ARE REQUIRED FOR HIGH SCHOOL OR DUAL CREDIT ENROLLMENTS; NO EXCEPTIONS, NO ALTERNATE ASSIGNMENTS PROVIDED!

Firefighter I NEW

MIS03: 07100

Grade Level: 11-12

Length: Full Year

Credit: 1

Instructional Method: Online + 4 regional competency-based skills lab days per semester

PLEASE NOTE: This is a first-year pilot course that will be limited to ONE section of 20 students.

With enrollment capped at 20 students, this course is reserved for highly committed students with all online learning and are ready for challenge, responsibility, and unforgettable real-world experience. Each semester includes five MANDATORY in-person skills days (locations TBD based off of location of enrolled students); no alternative assignment will be given. Students must be at least 16 years old in order to fully participate in skills days. Step into the world of real-life heroes! This yearlong Firefighter I course blends dynamic online learning with high-energy, hands-on training that puts you right into the action. Students will explore fire behavior, firefighter safety, equipment operations, rescue techniques, hazardous materials awareness, and the teamwork required to protect lives and property. Each semester includes five MANDATORY in-person skills days (locations TBD), where you'll gear up, practice skills within real-life scenarios, and train alongside experienced firefighters. **Completion of all course requirements may lead to industry level firefighting certification opportunities!**

Information Technology

Introduction To Information Technology

MIS03: 27101

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Start your journey into the fast-paced world of tech. This course is the gateway to our entire IT department, giving you a broad look at the industries that power our modern life. You will explore the foundations of computer hardware, software development, networking, and digital citizenship. Through interactive projects and hands-on labs, you will discover which tech path fits you best while building the essential digital skills needed for any modern career. This is where your future in technology begins!

Computer Hardware & Operating Systems

MIS03: 27219

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Prerequisite: Introduction to Information Technology

Dual Credit option available. Must be in 10th Grade and 16 years of age to enroll in dual credit Courses.

Stop wondering what's inside the box and start building it yourself. Whether you want to build a high-end gaming PC or understand the tech that powers your world, this course gives you the keys to the kingdom. You'll get hands-on experience assembling, configuring, and troubleshooting hardware from the ground up. You'll master the skills that power the digital world and get a head start on your degree. Don't just be a user—become a builder!

Networking Fundamentals

MIS03: 27266

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual Credit is available through Bismarck State College during Spring semester. Must be in 10th

Grade to enroll in dual credit courses.

Ever wonder how the internet actually works? In this course, you'll stop wondering and start building. Using professional tools like Cisco Packet Tracer, you'll design, secure, and troubleshoot the networks that power everything from smart homes to global businesses.

Through hands-on labs in a virtual cyber range, you'll master the languages of the web while learning the defense tactics needed to protect network architecture from cyberattacks. You'll gain the skills required to configure and defend the digital backbone of the modern world. If you want to know how the world connects, this is where you start!

Cybersecurity I

MIS03: 27280

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual credit is available through Bismarck State College each semester – for Spring Semester students MUST have successfully completed the Fall semester curriculum. Must be in 10th Grade to enroll in dual credit courses.

In an era of constant digital threats, cybersecurity is the ultimate modern skill. This course provides a comprehensive deep dive into protecting our digital future—from mastering software security to the basics of cryptography. Through focused hands-on labs, you'll gain a unique perspective on how systems are both defended and breached. Build a professional foundation in one of the world's highest-demand fields and secure your data and your future all at once!

Cybersecurity II

MIS03: 27280

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

NEW Prerequisite: Cybersecurity I

Dual credit is available through Bismarck State College each semester – for Spring Semester students MUST have successfully completed the Fall semester curriculum. Must be in 10th Grade to enroll in dual credit courses.

Ready to take your cyber skills to the professional level? Cybersecurity II is where the theory meets the real world. This heavily lab-based course moves beyond the basics, giving you direct experience with advanced networking, Linux system administration, and the fascinating world of vulnerabilities and exploits. You'll learn exactly how professionals identify system weaknesses and how to build defenses to protect industry networks. You'll have a professional toolkit of skills to prove you're ready for the next level of tech. It's hands-on, high-tech, and the perfect final step in your cybersecurity journey!

Coding with Python

MIS03: 27123

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual credit is available through Bismarck State College.. Must be in 10th Grade to enroll in dual credit courses.

Step into the world of one of the most popular and versatile programming languages on the planet. This course takes you from the basics of code to solving real-world challenges with logic and data. You'll master Python fundamentals like procedures, arrays, sorting, and creating classes. Plus, during our face-to-face sessions, you'll get the chance to put your skills to the test by programming robots to perform interactive tasks. Whether you want to build software or explore automation, you'll gain a professional toolkit to power your future in tech!

Coding with JAVA - Computer Science A

MIS03: 27125

Grade Level: 10-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual credit is available through Bismarck State College.. Must be in 10th Grade to enroll in dual credit courses.

Ready to master the language behind millions of devices and apps? Following the professional CSA (Computer Science A) platform, this course introduces you to the power of Java, focusing on the logical structures and problem-solving skills used by professional developers—including variables, decision structures, and looping. You'll also get hands-on with physical robots during our face-to-face week, applying your code to solve real-world challenges. You'll build a professional foundation in one of the industry's most essential languages, preparing you for advanced computer science and beyond!

Introduction to Linux **NEW**

MIS03: 27305

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual Credit option available.

Want to go beyond the basic desktop? Linux is the powerful operating system that runs the world's web servers, supercomputers, and the backbone of global cybersecurity. This course takes you from the basics of file management to the power of the command line. Using professional tools in a safe, virtual Cyber Range, you'll learn how to navigate systems, manage user security, and automate tasks through scripting. Whether you're interested in becoming a

system administrator or a cybersecurity expert, you'll build the technical proficiency that top tech companies are looking for. Gain the skills to manage and secure the systems that power the digital age!

Introduction to Artificial Intelligence (AI)

MIS03: 27290

Grade Level: 10-12

Length: Fall or Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Dual credit is available through Bismarck State College. Must be in 10th Grade to enroll in dual credit courses.

Artificial Intelligence is changing the world—do you know how it works? This course pulls back the curtain on the most exciting frontier in technology. You'll explore how machines learn, perceive, and make decisions, gaining hands-on experience with the tools and concepts that power everything from voice assistants to autonomous systems. You'll build a solid understanding of AI ethics and real-world applications, giving you a massive head start in the most high-demand field of the 21st century. Join the AI revolution and learn to build the future!

Introduction to Video Game Design

MIS03: 27130

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Stop just playing games and start building them! This course is your entry point into the gaming industry, where you'll learn to design and program using Flowlab's professional visual system. You'll master game logic, physics, and object interactions—all without needing to learn complex text-based coding first. From creating your own sprites to building challenging levels and scoring systems, you'll develop the same skills used by indie developers. The semester culminates in our Game-a-Palooza event, where you'll debut your original game and challenge your classmates to play it. If you have a creative vision for a game, this is where you bring it to life!

Introduction to Mobile App Design

MIS03: 27128

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Stop just using apps and start building them! This course transforms you from a tech consumer into a mobile innovator using the professional MAD-learn platform. You'll dive into a 6-step design thinking process—Ideate, Plan, Design, Build, Test, and Launch—to create functional, dynamic apps from scratch. Whether you want to solve a community problem or launch the next big startup, you'll master the visual tools of app creation before diving into the code that powers

them. Best of all, you'll have the chance to see your hard work go live by sharing your finished projects on the MAD Store. It's time to turn your app ideas into a reality!

Marketing

Students have the opportunity to participate in DECA through Bismarck Public Schools CRACTC group.

Marketing

MIS03: 04210

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online + 1 regional competency-based skills lab day per semester

This course develops student 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 on-line 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.

Principles of Finance

MIS03: 04081

Grade Level: 9-10

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

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.

Sports and Entertainment Marketing

MIS03: 04240

Grade Level: 10-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

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.

Social Media Marketing

MIS03: 04235

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Social Media Marketing presents the use of on-line 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.

Principles of Entrepreneurship

MIS03: 04110

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Have you ever thought of owning your own business? This is a marketing course that introduces students to a wide array of entrepreneurial concepts and skills. Students will develop an appreciation for marketing's role in the development and success of a new business. Students conduct thorough market planning for their ventures: selecting target markets; conducting market, SWOT, and competitive analyses; forecasting sales; setting marketing goals and objectives; selecting marketing metrics; and setting a marketing budget. The capstone activity in the course is the development of detailed marketing plans for students' start-up businesses.

Military Careers

Careers and the Military **NEW**

MIS03: 15052

Grade Level: 10-12

Length: Full Year

Credit: 1

Instructional Method: Online + 4 regional competency-based skills lab days per semester

Students are expected to attend three (3) scheduled face-to-face, hands-on learning days per semester as part of this course. Location will be within the CRACTC membership region and will be based on geographic locations of enrolled students.

Step into a course that bridges two worlds, civilian careers and military pathways! In this dynamic online/ hybrid class, you'll explore how military training, values, and career fields connect directly to high-demand civilian jobs. From cybersecurity and aviation to healthcare, engineering, logistics, and leadership, you'll learn how the skills gained in service translate into real-world opportunities in every industry, while also getting to experience some real-life military training and applications. Whether you're considering military service, civilian employment, or both, this course helps you chart a purposeful future with the knowledge and skills to succeed in any direction you choose!

Technology and Engineering

****Science credit option is available for STEM I and II. Science credit option is not CTE credit and is not accepted toward the state CTE Scholarship.**

Stem Seminar I

MIS03: This course can be coded as **Tech Ed credit (11170)** or **Science credit (13150)**.

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Build, Design, and Solve Real-World Challenges is an exciting, hands-on, project-based course where you'll use Science, Technology, Engineering, and Math to tackle real-world problems. You'll design and prototype projects like bridges, catapults, assistive-reach devices, and parachutes using everyday materials, while also diving into CAD programming to bring your ideas to life with precision. Explore the Engineering Design Process as you create digital and physical models of structures like cantilevers and test their strength and functionality. Your success is all about creativity, effort, and teamwork. This course is an introduction to the basics of exciting STEM careers and empowers you to shape the future. Sign up today and start designing your world!

Stem Seminar II

MIS03: This course can be coded as **Tech Ed credit (11170)** or **Science credit (13150)**.

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 1 regional competency-based skills lab day

Power Up Your Creativity and Explore the Future is a continuation of fall semester STEM I with hands-on, project-based course where you'll dive into energy, power, and agricultural engineering using Science, Technology, Engineering, and Math to solve real-world challenges. You'll tackle exciting projects like building mousetrap cars, simple motors, batteries, and even a "putt-putt" boat, while mastering the Engineering Design Process and exploring innovative STEM careers. Your success is based on creativity, teamwork, and effort.

Foundations of Engineering & Technology

MIS03: 10094

Grade Level: 9-12

Length: Fall Semester

Credit: .5

Instructional Method: Online + 3 regional competency-based skills lab days

Prerequisite: **STEM SEMINAR I or II**

Discover your inner innovator with the Foundations of Engineering course! This exciting next step course from STEM I and II, empowers students in grades 10-12 to design, create, and bring ideas to life. Learn how to transform your creativity into real-world solutions through hands-on projects in manufacturing, construction, energy, and communication technologies. Explore cutting-edge topics, while gaining a deeper understanding of how engineering shapes society and impacts the environment. Whether you're dreaming of inventing the next big thing or just love solving problems, this course offers the skills and knowledge to turn your vision into reality. Enroll now and start building your future today!

*Schools may be required to purchase applicable course materials (approximately \$35 or less per student). **Additional course material and supplies include items such as saws, drills, etc. to complete projects.

Foundations of Engineering and Technology II (10094)

MIS03: 10094

Grade Level: 9-12

Length: Spring Semester

Credit: .5

Instructional Method: Online + 3 regional competency-based skills lab days

Prerequisite: **Foundations of Engineering & Tech**

This course is a continuation from the fall Foundations of Engineering I course. You will explore cutting-edge topics, while gaining a deeper understanding of how engineering shapes society and impacts the environment. Whether you're dreaming of inventing the next big thing or just love

solving problems, this course offers the skills and knowledge to turn your vision into reality. Continue to expand your creativity into real-world solutions through additional hands-on projects. Enroll now and continue building your future learning in Engineering!

*Schools may be required to purchase applicable course materials (approximately \$35 or less per student). **Additional course material and supplies include items such as saws, drills, etc. to complete projects.

Work-Based Learning (WBL)

Kim Jensen is the Work-based Learning Coordinator for over 700 students from within 57 different high schools located throughout mostly Central North Dakota who are taking courses with the Central Regional Area Career and Technical Center (CRACTC). The CRACTC offers Career and Technical Education (CTE) programming in several areas such as Agriculture, Aviation, Family & Consumer Sciences, Graphic Arts, Health Sciences, Information Technology, Marketing, and Technology & Engineering.

Kim's role is to be the bridge between students and industry by coordinating work-based learning opportunities such as job shadows, internships, and/or cooperative work experiences. Kim looks for businesses throughout the Central Region of North Dakota, both rural and urban areas, who would be interested in partnering with the CRACTC to provide these Work-based Learning opportunities for students and future workforce.

Work-Based Learning (WBL)– Cooperative Work Experience I MIS03:

Grade Level: 10-12

Length: Fall or Spring Semester

Credit: .5

Instructional Method: Online + local competency-based skills lab days

Class size is limited, and preference will be given to juniors and seniors. Students must select a program area in which they plan on completing the WBL Cooperative Work Experience and **MUST** have completed AT MINIMUM one credit of courses within that selected program area to be eligible for this course!

This course includes both online components providing learning opportunities involving career ready practice skill development including: 1) Responsible employee; 2) Technical Skills; 3) Communication; 4) Problem Solving; 5) Teamwork, as well as on-site work-based learning experience. The employment or practicum will be preceded by the classroom instruction related to the work experience. After completing the required online components, within the semester timeframe of the course, students will be guided to establish a regularly scheduled, supervised employment or practicum opportunity related to their career goals within their selected program area in order to develop and enhance their work skills. There shall be a training agreement among all partners involved in the cooperative work experience (i.e. CRACTC, school, employer and/or supervisor, student, and parents/guardians) outlining the expectations of each party. The instructor shall also develop a specific training plan with the employer and/or supervisor for each student placed for the work experience portion of this class. The training plan shall include provisions for assessment of student progress, and for on-site visits by the program facilitator during the student's placement. All cooperative work experience placements will require the approval of the school administration and the WBL program facilitator.

Work-Based Learning (WBL) – Cooperative Work Experience II

MIS03:

Grade Level: 10-12

Length: Fall or Spring

Credit: .5

Instructional Method: Online + local competency-based skills lab days

Prerequisite: **Cooperative Work Experience I is required**

Cooperative Work Experience I must be successfully and adequately completed prior to enrollment in this course. Preference will be given to juniors and seniors who demonstrated strong evidence of the understanding and application of the Career Ready Practices within

Course I Students who do not demonstrate strong evidence of the understanding and application of the Career Ready Practices within Course I may not be accepted into this course option to help ensure strong working relationships between our program and the participating industry partners. Students must select a program area in which they plan on completing the WBL Cooperative Work Experience and **MUST** have completed **AT MINIMUM** 0.5 credit of courses within that selected program area to be eligible for this course!

This course provides students with an extended work-based learning experience beyond their learning in the Cooperative Work Experience I course. The course will be primarily involving the regularly scheduled, supervised employment or practicum opportunity related to their career goals that extends beyond their previous learning. There shall be a training agreement among all partners involved in the cooperative work experience (i.e. CRACTC, school, employer and/or supervisor, student, and parents/guardians) outlining the expectations of each party. The instructor shall also develop a specific training plan with the employer and/or supervisor for each student placed for the work experience portion of this class. The training plan shall include provisions for assessment of student progress, and for on-site visits by the program facilitator during the student's placement. All cooperative work experience placements will require the approval of the school administration and the WBL program facilitator. Preference will be given to juniors and seniors who demonstrated strong evidence of the understanding and application of the Career Ready Practices within Course I. Students who do not demonstrate strong evidence of the understanding and application of the Career Ready Practices within Course I may not be accepted into this course option.