

FLASHER PUBLIC SCHOOL DISTRICT



2023-2024 Course Catalog

INTRODUCTION

This registration handbook is designed to assist students and parents in planning the student's schedule for the next year. Choices of classes will affect the future education as well as the career chosen in life. Each year the school counselor works with the students to develop and monitor a Four Year Plan for them. This Four Year Plan will assist the student as to the classes needed to help them graduate and help prepare the student for their post-secondary education/career.

All students will receive general instruction for pre-registration. Take time to review the [Coordinated Plans of Study](#) provided at the end of this document, as a tool to aid the student in making course selections. After students have had the opportunity to discuss course selections with their parents, the pre-registration form will be completed.

*It is essential that students and parents take time to review the information presented and discuss the choices to be made as it affects the student's future educational and career plans. If additional explanations are needed, please contact the principal or asst. principal, Mr. Nieuwsma or Mr. Krenz and the school counselor, Mrs. Erdahl.

After pre-registration, the class schedule will be built around the students' requests. Employing teachers, purchasing textbooks and supplies, and making classroom assignments are all based on the subjects students choose during the spring pre-registration.

Upon final registration in August, student schedules are set and will be entered into PowerSchool. Any exceptions must be approved by the principal.

Students and parents are encouraged to call or meet with Mr. Nieuwsma, Mr. Krenz, or Mrs. Erdahl about registration procedures or course selections. Phone Number: 701.597.3355.

FLASHER HIGH SCHOOL COURSE REQUIREMENTS

FLASHER HIGH SCHOOL COURSE REQUIREMENTS			
English	Math	Science	Social Studies
4 units required to graduate; including literature, composition, and speech.	3 units required to graduate	3 units required to graduate.	3 units required to graduate.
Choices may include:	Choices may include:	Required Units:	Required Units:
English 9	Algebra I	Physical Science	World History
English 10	Geometry	Biology	U.S. History
English 11	Algebra II	One additional unit of Science:	Problems of Democracy/Civics Test/Principles of Finance
English 12	Additional units may include:		Forensics
OR	College Algebra Dual Credit	Chemistry	World Area Studies
College English Dual Credit	College Trigonometry Dual Credit	Biotechnology	North Dakota Studies
	College Elem. Statistics Dual Credit	Anatomy & Physiology	Psychology/Sociology
Physical Education	Business/Tech	Electives	
1 unit required to graduate.	1 unit required to graduate.	7 units required to graduate.	
Required Units:	Required Units:	Additional units may include:	
Physical Education ½ unit	Computer Applications ½ unit	Intro to Agriculture	Welding
Health ½ unit	Business Fundamentals ½ unit	Foundations of Agriculture	Woodworking
Additional units may include:	Additional units may include:	Accounting	Sports Officiating
Weight Training	Accounting I, II, III - ½ unit each	Business Law	Online Medical Careers
Lifetime Fitness ½ unit	Business Law ½ unit	Clothing & Textiles	Online Cybersecurity
Fitness/Conditioning Activities ½ unit	Entrepreneurship ½ unit	Child Development	Online Graphic Arts
	Business Finance ½ unit	Choir	ITV Spanish

NORTH DAKOTA UNIVERSITY SYSTEM

ADMISSION REQUIREMENTS

Students who plan to attend a four-year institution in the University System must successfully complete a core curriculum of high school courses.

Required courses for university enrollment include:

- 4 units of English (including written and oral communication skills);
- 3 units of mathematics (algebra I and above)
- 3 units of laboratory science (including at least 2 in biology, chemistry, physics or physical science)
- 3 units of social studies (excluding consumer education, cooperative marketing, orientation to social science and marriage/family)

It's recommended that future university students take *one high school mathematics course each year, including advanced algebra, and take at least two foreign language courses*, which may include American Sign Language or Native American languages. Additional courses may be required before the student can be admitted to some college programs. Talk to the school counselor for information about specific requirements for the programs of interest.

These requirements are **NOT** in effect at the two-year public campuses that offer certificates, diplomas, or associate degrees. Students who have not had the required courses are strongly encouraged to enroll in any of North Dakota's public two-year postsecondary institutions. Upon completion of 24 transferable semester credits at these campuses, students may be eligible for transfer to a four-year campus.

The ACT Assessment is optional for all students; the ACT writing essay may be required. Check with the campus admission office to find out if the writing essay is part of their admissions requirements (includes possible admission to college or specific programs).

ND SCHOLARSHIP REQUIREMENTS

\$750/Semester for 8 Semesters = \$6000 Scholarship

Eligibility requirements:

1. Student must be a North Dakota resident and graduate from a high school in North Dakota
2. Student must have completed the diploma requirements with a grade of at least "C" in each unit
3. Student must have a grade point of at least a "B average"/ 3.0 on a 4.0 scale
4. Student must have 1 credit of Algebra II

Three types of scholarship and requirements: (Students qualify under only one category)

1. Academic Scholarship: (Class of 2022, 2023 & 2024 eligible)
 1. Eligibility requirements
 2. 1 credit of math for which Algebra II is a prerequisite
 3. 2 credits of the same foreign language, Native American language, American Sign Language, or 2 units of CTE from a coordinated plan of study
 4. 1 credit of foreign language, Native American language, American Sign Language, fine arts, or CTE
 5. 1 credit of an AP course & examination or 1 HS credit of a Dual Credit course
 6. Obtain a 24 Composite score on the ACT
2. Career and Technical Scholarship: (Class of 2022, 2023 & 2024 eligible)
 1. Eligibility requirements
 2. 4 credits of CTE, where 2 credits of CTE must be in a coordinated plan of study
 3. 1 credit of foreign language, Native American Language, American Sign Language, fine arts, or CTE
 4. ACT composite score of 24 or a score of 5 on all three parts of the WorkKeys (Applied Math; Graphic Literacy; Workplace Documents)
3. North Dakota Scholarship: (Class of 2022, 2023, 2024, 2025 and beyond are eligible)
 1. Complete a 9-week career course or individual meetings with counselor
 2. Pass the ND Civics test
 3. Complete 4-Year Rolling Plan each year in high school
 4. Complete 4 of the following:
 - a. 25 hours of community service
 - b. 95% attendance (not counting school related absences)
 - c. Career exploration experience
 - d. 2+ years in organized co-curricular activities
 - e. 2+ years in organized extracurricular activities
 - f. Successfully complete a capstone project
 - g. Successfully complete an online learning course
 - h. Demonstrate competency In 21st century skills.

5. Meet the requirements in 2 of the 3 following categories:
 - a. Post-Secondary Ready
 - I. ACT composite of 24 or SAT composite of 1180 AND
 - II. 2 or more additional indicators:
 1. AP Course with A, B, or C and AP exam with 3 or higher
 2. Dual Credit Course (English or math) with A, B, or C
 3. Algebra II with A, B, or C
 4. International Baccalaureate Exam with 4 or higher
 5. 3.0 GPA in core course requirements for NDUS admission
 - b. Workforce Ready
 - I. 4 credits of CTE with 2 credits in the same coordinated plan of study.
 - II. ACT composite of 24 or 5 or higher on three WorkKeys tests (Graphic Literacy; Workplace Documents; Applied Math)
 - III. 2 of more additional indicators:
 1. Complete career ready practices course
 2. Dual credit course with A, B, or C
 3. Technical assessment or Industry credential
 4. Workplace learning experience (40 hours)
 5. Work-based learning experience (Perkins V) (40 hours)
 6. NDSA (Reading/Math) Level 3 or greater
 - c. Military Ready
 - I. ASVAB score of 85 or greater OR ASVAB score of 31 or greater and have completed Basic Training.
 - II. Physically Fit - successfully completed required PE courses with A, B, or C
 - III. Complete 2 or more additional indicators from either Post-Secondary or Workforce Ready options.

Dual Credit

Dual credit classes offered at FPS as electives give students one credit for high school and one for college simultaneously. Students must pass a placement test to register for these courses. It will be the student's responsibility to enroll in these courses through BSC before the course starts and to pay for the course. To do this, the student must go to BSC Admissions and submit a BSC Application (select the "early entry non-degree seeking student") and pay the \$35.00 application fee. And then follow the instructions they give you on their webpage. Also, students should be aware that college classes do not run on the same calendar as the high school.

AGRICULTURE EDUCATION ELECTIVES

Introduction to Agriculture

Grade 9 1 Credit 1 Year

Course is designed to introduce students to agriculture, its applications, and leadership development. Topics may include: animal and livestock management, soils, plants, crop identification, horticulture, diseases, and chemicals.



Foundations of Agriculture

Grade 10 1 Credit 1 Year

Course is designed to introduce students to agriculture, its applications, and leadership development. Topics may include: animal and livestock management, soils, plants, crop identification, horticulture, diseases, and chemicals.

AGRICULTURAL PROCESSING

Grade 11 - 12 ½ Credit 1 semester

Prerequisite: Ag I

This course is designed to introduce students to the processing of agricultural products. The course will include the processing of food, fiber, and material product processing for the global economy will be emphasized. Personal communication skills, human relation skills, leadership development skills, and supervised agricultural experiences will be emphasized.

BOTANY/HORTICULTURAL SCIENCE I

Grade 9 - 12 ½ Credit ½ Year (Spring Semester)

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

AGRICULTURE EDUCATION ELECTIVES

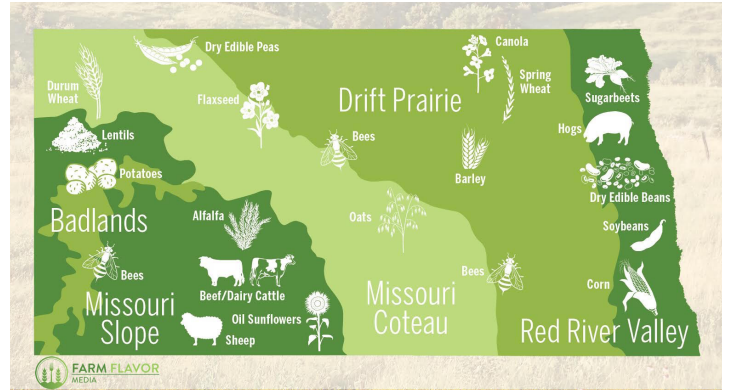
EQUINE SCIENCE

Grade 9 - 12

½ Credit

½ Year (Fall Semester)

This course is designed to provide students with opportunities to learn, reinforce, apply, and transfer their knowledge and skills of animal systems (including, but are not limited to, horses, donkeys, and mules.) The student will analyze the selection of horses, how to provide proper nutrition using accepted protocols and processes, describe the anatomy and physiology of horses, and select equipment and facilities which demonstrate methods of handling and breeding horses safely. The student will compare and contrast issues affecting the industry and describe issues concerning biotechnology related to the equine field.



The student will also learn the employability characteristics of a successful employee in the field of equine science by participating in laboratory-based, or other supervised, agricultural experiences, and learn from the challenging hands-on approach in equine activities

NATURAL/ ENVIRONMENTAL RESOURCES

Grade 9 - 12

½ Credit

½ Year (Spring Semester)

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

AGRONOMY SCIENCE

Grade 11 - 12

½ Credit

½ Year (Spring Semester)

Prerequisite: Ag I

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

AGRICULTURE EDUCATION ELECTIVES

AGRISCIENCE TECHNOLOGY I

Grade 11-12 ½ credit ½ Year (Spring Semester)

Prerequisite: Ag I

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

AGRICULTURE III or IV

Grade 11-12 ½ credit ½ Year (Fall Semester)

Prerequisite: Ag I

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

BUSINESS ELECTIVES

Accounting I & II

Grades 9-12

1 Credit

1 Year

Business finances including assets, liabilities, equity, revenue, expenses, gains, losses, payroll, personal and business taxes, financial software



Accounting III

Grades 10-12

½ Credit

Fall

Semester



Prerequisite: Accounting 2

This course focuses on financial statements and training for QuickBooks certification.

Computer Applications

Grades 9-12

½ Credit

½ Year

Formal training in Microsoft Office, Excel, and PowerPoint; high-performing students will be given a free opportunity to become Excel Certified

***External mouse is highly recommended but not required*



NEW! Business Finance

Grades 10-12

½ Credit

Spring Semester

Focuses on the financial side of business like keeping records, investing, credit, financial decisions, and taxes. Also teaches students how to calculate real-life financial scenarios like paychecks, loans, payments, etc.

BUSINESS ELECTIVES



Business Fundamentals

Grades 9-12 ½ Credit ½ Year

An intro to business class that covers careers, personal checking, budgeting, intro to accounting, resumes and interviewing, business ownership types, intro to business law, and a money management simulation.

Business Internship

Grade 12 ½ Credit ½ Year

Required to have 2 business credit hours prior to enrolling

Students will spend about 40 hours as an intern at a local business, learning about new business opportunities and working in a real job setting. Some employers offer summer employment following this internship. **Application process is required for this program

Business Law

Grades 10-12 ½ Credit ½ Year

Spend a day observing in court after learning about ethics and the law, contracts, employment legislation and worker benefits, types of an organization, property law, banking law, computer law, wills and trusts, and doing some mock trials.



Entrepreneurship

Grades 10-12 ½ Credit Spring Semester

Prerequisite: Business Fundamentals

Characteristics of and interviewing entrepreneurs, famous entrepreneurs, ethics, design thinking, shark tank, target market, advertising, business income vs. expenses, competition, food truck project and lemonade day.

NEW! Word Processing

Grade 9-12 ½ Credit ½ Year

Provides hands-on operation of microcomputer equipment with the word processing software, Microsoft Word. *This class is only offered with individual student requests.*

FAMILY & CONSUMER SCIENCE ELECTIVES

Nutrition and Food Prep I & II

Grade 9-12

½ Credit

½ Year

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

Housing & Living Environments

Grade 9-12

½ Credit

½ Year



Housing and Living Environments: .Content may include: the meaning of home; determining personal housing needs; selecting housing to meet needs; legal and financial aspects of housing; housing for individuals with special needs; the home as work site; personal expression through home decoration; household equipment selection, care, and use; maintaining safe environment; home repairs and improvements; energy and resource consumption and conservation; technology for home and family life; societal and

environmental impacts of decisions; sources of support and assistance for individuals and families; current issues related to family housing; related careers; leadership development.

SOCIAL STUDIES ELECTIVES

World Area Studies

Grade 9-12

½ Credit

½ Year



History through film examines the history, politics, economics, society, and/or culture of one or more regions of the world, such as Africa, Latin America, the former Soviet Union, Far East Asia, and the Middle East through its portrayal in cinema. This course may focus primarily on the history of a particular region or may take an interdisciplinary approach to the contemporary issues affecting the region.

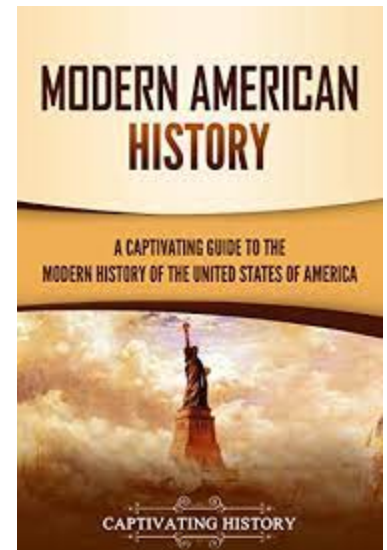
Modern US History

Grade 9-12

½ Credit

½ Year

Modern US History includes a historical overview of political, military, economic and social developments of the United States. The course examines the time periods from World War I to present day with an emphasis on armed conflicts.



PHYSICAL EDUCATION ELECTIVES

Individual and Dual Sports

Grade 10-12 ½ Credit ½ Year

Individual/Dual Sports provides students with knowledge, experience, and an opportunity to develop skills in more than one individual or dual sport (such as tennis, golf, badminton, jogging/running, racquetball, and so on).

General Physical Education

Grade 10-12 ½ Credit ½ Year

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

Weight Training I

Grade 9-12 ½ Credit ½ Year



This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training,

and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Lifetime Fitness Education

Grade 10-12 ½ Credit ½ Year

Lifetime Fitness Education emphasizes acquiring knowledge and skills regarding lifetime physical fitness; content may include related topics such as nutrition, stress management, and consumer issues. Students may develop and implement a personal fitness plan.

SCIENCE ELECTIVES

AP Biology

Grade 11-12

1 Credit

1 Year

Advanced Biology covers biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms. Students who pass the AP Biology exam will be awarded 8 credits of college biology; upon successful completion, students who choose to enroll dual credit will receive 8 credits of biology without taking the AP Exam.

AP Environmental Science

Grade 11-12

1 Credit

1 Year

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. This course is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students who pass the AP Environmental Science exam will receive 4 credits of college biology.

TECHNOLOGY ENGINEERING ELECTIVES

Welding I

Grade 9-12

1 Credit

1 Year



Introduction to oxy-fuel, stick electrode, and wire feed welding. This course is self-paced and includes a number of technical welds, including but not limited to lap, butt, T, and corner welds from flat, horizontal, vertical, and overhead positions.

Welding II

Grade 10-12

1 Credit

1 Year

Prerequisite: Welding I

Continuation of Welding I - Includes oxy-fuel, stick electrode, wire feed, TIG and welding, as well as symbols and blueprint reading. This course is self-paced and project-based.

Manufacturing Technology

Grade 10-12

1 Credit

1 Year

Prerequisite: Intro to Woodworking

Continuation of Woodworking. Includes oxy-fuel, stick electrode, wire feed, TIG and welding, as well as symbols and blueprint reading. This course is self-paced and project-based.



DUAL CREDIT MATH ELECTIVES

College Algebra (Dual Credit option)

Grade 12 ½ Credit ½ Year

***Dual Credit through BSC for 4 college credits*

MATH 103 - Fall course



Topics covered include solutions of linear and quadratic equations and inequalities, graphing functions and relations, polynomial and rational functions, systems of equations and inequalities, exponential and logarithmic functions.

College Trigonometry (Dual Credit option)

Grade 12 ½ Credit ½ Year

***Dual Credit through BSC for 2 college credits*

MATH 105 - Spring course



Topics covered include functions of the general angle, graphs of the trigonometric functions, inverse functions, identities, trigonometric equations, and applications.

Elementary Statistics (Dual Credit option)

Grade 12 ½ Credit ½ Year

***Dual Credit through BSC for 3 college credits*

MATH 210 - Alternate Spring course



An introduction to statistical methods of gathering, presenting and analyzing data. Topics include probability and probability distributions, confidence intervals, hypothesis testing, and linear regression and correlation.

MUSIC ELECTIVES

Choir

Grades 7-12 ½ - 1 Credit Fall/Spring/Full Year

Choir presents students with an opportunity to express themselves through vocal music. The ensemble setting encourages collaboration/teamwork and develops language and math skills through text and rhythm. Choir also provides opportunities for solo/small group work and honor events. No prerequisites required.

Band

Grades 7-12 ½ - 1 Credit Fall/Spring/Full Year

Band presents students with an opportunity to express themselves through instrumental music. The ensemble setting encourages collaboration/teamwork and develops math skills through rhythm. Band also provides opportunities for solo/small group work and honor events. No prerequisites required.

Music Theory

Grades 9-12 ½ Credit Fall

Music Theory introduces students to the fundamental building blocks of Western music notation. Students will develop the skills needed for conducting, arranging, and composition. This class is beneficial to students interested in songwriting for commercial jingles, pop/rock style music, or full orchestral pieces. No prerequisites required.

Music History

Grades 9-12 ½ Credit Spring

This course will provide connections between the musical development in Western musical styles in conjunction with major events in world history. This class is focused on European and American developments in musical style.

Students are encouraged but not required to take Music Theory prior to this course.



CRACTC ELECTIVES

GRAPHIC ARTS

Graphic Design & Photography I

Grades 10-12

1 Credit

1 Year

Online & hands on component. This course will introduce the skills needed in graphic design. Students will create a digital portfolio of their artwork.



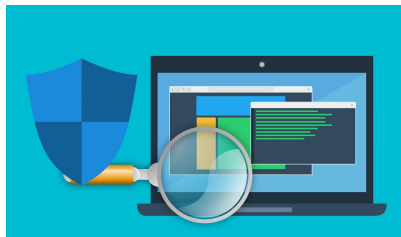
Graphic Design & Photography II

Grades 10-12

1 Credit

1 Year

Prerequisite: Graphic Design & Photography I



Online & hands on component. This course will build on the skills needed in graphic design and introduce students to potential careers, college and training opportunities for graphic designers.

HEALTH SCIENCE CAREERS

Health Science I - Medical Careers

Grades 10-12 1 Credit 1 Year

This year-long course provides students with information relating to the educational and professional requirements for the various medical careers. Students must successfully complete both semesters of this class including FirstAid & CPR/AED Certification for Healthcare Providers. Online & hands on component.



Advanced Medical Careers

Grades 10-12 1 Credit 1 Year

Prerequisite: Medical Careers

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. Online & hands on component.

Medical Terminology (Dual Credit option)

Grades 10-12 ½ Credit ½ Year

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. *Dual Credit is available through BSC. Must be in 10th grade and 16 years of age to enroll in dual credit courses.*



Emergency Medical Responders

Grades 11-12 1 Credit 1 Year

Prerequisite: Medical Careers I including First Aid & CPR/AED Certification

This introductory course prepares students to respond to a wide range of emergencies such as heart attacks, auto accidents and diabetic problems. On completion of this EMR course students will be better prepared to work with local EMTs to complete requirements for state EMR testing. Online & hands on component.

HEALTH SCIENCE CAREERS

Certified Nursing Assistant

Grades 10-12

½ Credit

Fall Semester

ITV 4th period Tuesday & Thursdays; *Online* Monday, Wednesday, and Fridays

Prerequisite: Medical Careers I including First Aid & CPR/AED Certification

This introduction to nursing assistant training program offers classroom instruction and the necessary skills practice to those preparing for employment as a certified nursing assistant in a skilled nursing facility, acute care or home health care. Online & hands on component.

INFORMATION TECHNOLOGY

Introduction to Information Technology

Grades 9-12

½ Credit

Fall Semester

This exploratory level course provides an exposure to careers and issues in Information Technology. Units prepare students for the industry recognized “Internet and Computing Core Certification” (IC3). Online & hands on component.

IT Essentials - PC Hardware & Operating Systems

Grades 9-12

½ Credit

Spring Semester

Prerequisite: Introduction to Information Technology

This course presents exposure to computer hardware and operating systems. Students learn how hardware and software components work as well as suggested best practices in maintenance and safety issues. This course prepares students for Comp TIA’s “A+” certification and/or Comp TIA’s “IT Fundamentals” certification exams. Online & hands on component. *Dual Credit is available through BSC. Must be in 10th grade and 16 years of age to enroll in dual credit courses.*

Cybersecurity

Grades 10-12

½ - 1 Credit

Fall/Spring/Full Year

As our world becomes increasingly dependent on technology, cybersecurity is a topic of growing importance. It is crucial that individuals and industry take precautions to protect themselves from the growing threat of cyber-attacks. The **fall semester** prepares students with beginning knowledge and crucial skills to be responsible citizens in a digital future. The **spring semester** will introduce students to best practices businesses use to protect their information as well as techniques individuals can use to protect themselves using social media. *Dual Credit is available through BSC for Spring semester only. Must be in 10th grade and 16 years of age to enroll in dual credit courses.*



Networking Fundamentals

Grades 9-12

½ Credit

Fall or Spring Semester

This course covers how network devices work together, network addressing and services, how to build a home network and design basic security, the basics of configuring Cisco devices, as well as testing and troubleshooting network problems. Online & hands on component.

INFORMATION TECHNOLOGY

Introduction to Programming

Grades 9-12

½ Credit

Fall Semester

This course is designed as an introduction to programming and programming languages such as Python, Java, JavaScript and C++ commonly used IT careers in industry today. Online & hands on component.

Introduction to Video Game Design

Grades 9-12

½ Credit

Spring Semester

This course introduces basic video game development using an introductory, web-based coding program called Scratch. Online & hands on component.

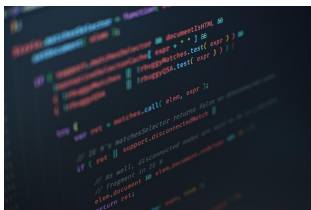
Coding with Java

Grades 10-12

½ Credit

Spring Semester

This course introduces basic video game development using an introductory, web-based coding program called Scratch. Online & hands on component.



Coding with Python

Grades 10-12

½ Credit

Fall Semester

This course is an online application-based course in computer programming using Python language; the fastest growing computer language in the world today. Online & hands on component. *Dual Credit is available through BSC. Must be in 10th grade and 16 years of age to enroll in dual credit courses.*

Video Game Design

Grades 10-12

1 Credit

1 Year

Prerequisite: Intro to Video Gaming Design, Coding with JAVA or Coding with Python

This course is an upper level coding course that teaches the foundations of creating and designing video games in JavaScript. Students will receive over 100 hours of hands-on video game programming practice in total.

GREAT WESTERN NETWORK ELECTIVES

All Classes are 1 Credit for Full Year

American Sign Language

- ASL I** Grades 9-12
- ASL II** Grades 9-12
- ASL III** Grades 9-12
- ASL IV** Grades 10-12

ANATOMY

- Anatomy** Grades 9-12

Art

- Art I** Grades 9-12
- Art II** Grades 9-12
- Art III** Grades 9-12
- Art IV** Grades 9-12



GERMAN

- German I** Grades 9-12
- German II** Grades 9-12
- German III** Grades 9-12
- German IV** Grades 9-12



SPANISH

- Spanish I** Grades 9-12
- Spanish II** Grades 9-12
- Spanish III** Grades 9-12
- Spanish IV** Grades 9-12

LAW

- Criminal, Personal, & Business** Grades 9-12

COORDINATED PLANS OF STUDY

Coordinated Plans of Study for the North Dakota Career and Technical Education or Academic Education or Academic Scholarships

Agricultural Education					
Agriculture, Food & Natural Resources Career Cluster					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01011	Introduction to Agriculture	½ or 1	Introduction to Agriculture	½ or 1	½ or 1
01021	Agriscience Technology I	½ or 1	Agriscience Technology I	½ or 1	½ or 1
01012	Foundations of Agriculture	½ or 1	Foundations of Agriculture	½ or 1	½ or 1
01022	Agriscience Technology II	½ or 1	Agriscience Technology II	½ or 1	½ or 1
01073	Agriculture III	½ or 1	Agriculture III	½ or 1	½ or 1
01023	Agriscience Technology III	½ or 1	Agriscience Technology III	½ or 1	½ or 1
01074	Agriculture IV	½ or 1	Agriculture IV	½ or 1	½ or 1
01080	CASE – Intro to AFNR	½ or 1	CASE – Intro to AFNR	½ or 1	½ or 1
Agribusiness Systems					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01034	Agricultural Sales & Service	½ or 1	Agricultural Sales & Service	½ or 1	½ or 1
01035	Agricultural Business Management	½ or 1	Agricultural Business Management	½ or 1	½ or 1
01069	World Agricultural Science and Technology	½ or 1	World Agricultural Science and Technology	½ or 1	½ or 1
01993	Community Development	½ or 1	Community Development	½ or 1	½ or 1
01995	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01999	Cooperative Work Experience	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
01990	Individual Agricultural Studies	½ or 1	Individual Agricultural Studies	½ or 1	½ or 1
Must complete at least 2 credits					
Power, Structural & Technical Systems					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01043	Agricultural Mechanics Technology I	½ or 1	Agricultural Mechanics Technology I	½ or 1	½ or 1
01044	Agricultural Mechanics Technology II	½ or 1	Agricultural Mechanics Technology II	½ or 1	½ or 1
01045	Agricultural Mechanics Power Systems	½ or 1	Agricultural Mechanics Power Systems	½ or 1	½ or 1
01046	Agricultural Welding & Fabrication	½ or 1	Agricultural Welding & Fabrication	½ or 1	½ or 1
01047	Advanced Ag Welding & Fabrication	½ or 1	Advanced Ag Welding & Fabrication	½ or 1	½ or 1
01990	Individual Agricultural Studies	½ or 1	Individual Agricultural Studies	½ or 1	½ or 1
01995	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01999	Cooperative Work Experience	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
Must complete at least 2 credits					
Natural Resources					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01053	Botany/Horticulture Science I	½ or 1	Botany/Horticulture Science I	½ or 1	½ or 1
01054	Botany/Horticulture Science II	½ or 1	Botany/Horticulture Science II	½ or 1	½ or 1
01063	Natural/Environmental Resources	½ or 1	Natural/Environmental Resources	½ or 1	½ or 1
01069	World Agricultural Science and Technology	½ or 1	World Agricultural Science and Technology	½ or 1	½ or 1
01990	Individual Agricultural Studies	½ or 1	Individual Agricultural Studies	½ or 1	½ or 1
01993	Community Development	½ or 1	Community Development	½ or 1	½ or 1
01995	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01999	Cooperative Work Experience	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
Must complete at least 2 credits					

Agricultural Education					
Agriculture, Food & Natural Resources Career Cluster					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01011	Introduction to Agriculture	½ or 1	Introduction to Agriculture	½ or 1	½ or 1
01021	Agriscience Technology I	½ or 1	Agriscience Technology I	½ or 1	½ or 1
01012	Foundations of Agriculture	½ or 1	Foundations of Agriculture	½ or 1	½ or 1
01022	Agriscience Technology II	½ or 1	Agriscience Technology II	½ or 1	½ or 1
01073	Agriculture III	½ or 1	Agriculture III	½ or 1	½ or 1
01023	Agriscience Technology III	½ or 1	Agriscience Technology III	½ or 1	½ or 1
01074	Agriculture IV	½ or 1	Agriculture IV	½ or 1	½ or 1
01080	CASE – Intro to AFNR	½ or 1	CASE – Intro to AFNR	½ or 1	½ or 1
Environmental Services Systems					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01053 - 54	Botany/Horticulture Science	½ or 1	CASE – Principles of Agricultural Science-Plant	½ or 1	½ or 1
01043 - 44	Agricultural Mechanics Technology	½ or 1	Agromony Science	½ or 1	½ or 1
01063	Natural/Environmental Resources	½ or 1	Botany/Horticulture Science I	½ or 1	½ or 1
01069	World Agricultural Science and Technology	½ or 1	World Agricultural Science and Technology	½ or 1	½ or 1
01088	CASE Environmental Issues	½ or 1	Individual Agricultural Studies	½ or 1	½ or 1
01990	Individual Agricultural Studies	½ or 1	Supervised Agricultural Experience	½ or 1	½ or 1
01993	Community Development	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
01995	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01999	Cooperative Work Experience	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
Must complete at least 2 credits					
Food Products & Processing Systems					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01068	Agriculture Processing	½ or 1	Agriculture Processing	½ or 1	½ or 1
01990	Individual Agricultural Studies	½ or 1	Individual Agricultural Studies	½ or 1	½ or 1
01995	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01999	Cooperative Work Experience	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
Must complete at least 2 credits					
Plant Systems					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01082	CASE – Principles of Agricultural Science-Plant	½ or 1	CASE – Principles of Agricultural Science-Animal	½ or 1	½ or 1
01025	Agromony Science	½ or 1	Livestock Production	½ or 1	½ or 1
01053	Botany/Horticulture Science I	½ or 1	Equine Science	½ or 1	½ or 1
01054	World Agricultural Science and Technology	½ or 1	Small Animal Care	½ or 1	½ or 1
01069	Individual Agricultural Studies	½ or 1	Veterinary Science	½ or 1	½ or 1
01990	Supervised Agricultural Experience	½ or 2	Agriculture Processing	½ or 1	½ or 1
01995	Supervised Agricultural Experience	½ or 2	World Agricultural Science and Technology	½ or 1	½ or 1
01999	Cooperative Work Experience	½ or 1	Supervised Agricultural Experience	½ or 1	½ or 1
Must complete at least 2 credits					
Animal Systems					
Course Code	Description	No. of Credits	Description	No. of Credits	No. of Credits
01081	CASE – Principles of Agricultural Science-Animal	½ or 1	CASE – Principles of Agricultural Science-Animal	½ or 1	½ or 1
01061	Livestock Production	½ or 1	Livestock Production	½ or 1	½ or 1
01062	Equine Science	½ or 1	Equine Science	½ or 1	½ or 1
01066	Small Animal Care	½ or 1	Small Animal Care	½ or 1	½ or 1
01067	Veterinary Science	½ or 1	Veterinary Science	½ or 1	½ or 1
01068	Agriculture Processing	½ or 1	Agriculture Processing	½ or 1	½ or 1
01069	World Agricultural Science and Technology	½ or 1	World Agricultural Science and Technology	½ or 1	½ or 1
01990	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01995	Supervised Agricultural Experience	½ or 2	Supervised Agricultural Experience	½ or 2	½ or 1
01999	Cooperative Work Experience	½ or 1	Cooperative Work Experience	½ or 1	½ or 1
Must complete at least 2 credits					

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Family and Consumer Sciences Education											
Human Services Career Cluster			Hospitality & Tourism Career Cluster			Arts, A/V Technology & Communications Cluster			Education & Training Career Cluster		
Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr	Course Code	Description	No. of Cr
09022	Family & Consumer Sciences I	1/2	09022	Family & Consumer Sciences I	1/2	09022	Family & Consumer Sciences I	1/2	09022	Family & Consumer Sciences I	1/2
09023	Family & Consumer Sciences II	1/2	09023	Family & Consumer Sciences II	1/2	09023	Family & Consumer Sciences II	1/2	09023	Family & Consumer Sciences II	1/2
09024	Family & Consumer Sciences III	1/2	09024	Family & Consumer Sciences III	1/2	09024	Family & Consumer Sciences III	1/2	09024	Family & Consumer Sciences III	1/2
09025	Independent Living	1/2	09025	Independent Living	1/2	09025	Independent Living	1/2	09025	Independent Living	1/2
09026	Child Development	1/2	09026	Child Development	1/2	09026	Child Development	1/2	09026	Child Development	1/2
09028	Consumer & Resource Management	1/2	09028	Consumer & Resource Management	1/2	09028	Consumer & Resource Management	1/2	09028	Consumer & Resource Management	1/2
09129	Individual & Family Health	1/2	09129	Individual & Family Health	1/2	09129	Individual & Family Health	1/2	09140	Individual Family & Consumer Sciences Studies	1/2
09130	Parenting	1/2	09130	Parenting	1/2	09130	Parenting	1/2			
09132	Family Living	1/2	09132	Family Living	1/2	09132	Family Living	1/2			
09140	Individual Family & Consumer Sciences Studies	1/2	09140	Individual Family & Consumer Sciences Studies	1/2	09140	Individual Family & Consumer Sciences Studies	1/2			
09131	Nutrition & Food Prep I	1/2									
09137	Nutrition & Fitness	1/2									
Family & Community Services			Early Childhood Development & Services			Restaurants & Food/Beverage Services			Visual Arts		
09299	Cooperative Work Experience	1/2 to 4	09131	Nutrition & Food Prep I	1/2	09135	Nutrition and Foods Prep II	1/2	09027	Clothing & Textiles I	1/2
			09137	Nutrition & Fitness	1/2	09136	Cultures & Cuisine	1/2	09029	Clothing & Textiles II	1/2
			09211	Early Childhood Care & Education Services	1, 2	09138	Food Science & Technology	1/2	09030	Fashion & Textile Trends	1/2
			09250	Occupational Exploration	1/2	09213	Food Service/Culinary Arts	1 or 2	09037	Current Topics in Textiles & Apparel	1/2
			09299	Cooperative Work Experience	1/2 to 4	09250	Occupational Exploration	1/2	09133	Housing & Living Environments	1/2
						09299	Cooperative Work Experience	1/2 to 4	09212	Clothing & Textile Services	1, 2
									09250	Occupational Exploration	1/2
									09299	Cooperative Work Experience	1/2 to 4
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		
Must complete at least 2 credits											

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Health Sciences Education											
Health Science Career Cluster					Business Management & Administration Career Cluster						
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
37080	CTE Health Careers Cluster	½ or 1	37080	CTE Health Careers Cluster	½ or 1	37080	CTE Health Careers Cluster	½ or 1			
07036	Medical Terminology	½ or 1	07036	Medical Terminology	½ or 1	07036	Medical Terminology	½ or 1			
07033	Health Sciences I	1 or 2	07033	Health Sciences I	1 or 2	07033	Health Sciences I	1 or 2			
07035	Health Sciences II	1 or 2	07035	Health Sciences II	1 or 2	07035	Health Sciences II	1 or 2			
Diagnostic Services			Health Informatics			Therapeutic Services			Biotechnology Research & Development		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
07034	Prevention/Care of Athletic Injuries	½ or 1	07040	Medical Records	1 or 2	07031	Nurse Assistant Foundations	½ or 1	10710	Biomedical Technology	½ or 1
07999	Health Education Supervised Occupational Experience	½ to 4	07999	Health Education Supervised Occupational Experience	½ to 4	07032	Nurse Assistant	½ or 1	10730	PLTW Principles of Biomedical Science	½ or 1
						07044	Emergency Medical Services Foundations	½ or 1	10732	PLTW Human Body Systems	½ or 1
						07045	Emergency Medical Services	1 or 2	10734	PLTW Medical Interventions	½ or 1
						07046	Advanced EMS	1 or 2	07999	Health Education Supervised Occupational Experience	½ to 4
						07999	Health Education Supervised Occupational Experience	½ to 4			
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		
Human Resources Management											
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
			07021	Sign Language I	½ or 1				07021	Sign Language I	½ or 1
									07022	Sign Language II	½ or 1
									07023	Sign Language III	½ or 1
									07024	Sign Language IV	½ or 1
									07025	Sign Language Cooperative Education	1
									07999	Health Education Supervised Occupational Experience	½ to 4
Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits			Must complete at least 2 credits		

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Information Technology Education

Information Technology Career Cluster											
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
27101	Intro to IT	½, ¾, 1	27101	Intro to IT	½, ¾, 1	27101	Intro to IT	½, ¾, 1	27101	Intro to IT	½, ¾, 1
27280	Introduction to Cybersecurity	½ or 1	27280	Introduction to Cybersecurity	½ or 1	27280	Introduction to Cybersecurity	½ or 1	27280	Introduction to Cybersecurity	½ or 1
23011	Computer Science Applications	½ or 1	23011	Computer Science Applications	½ or 1	23011	Computer Science Applications	½ or 1	23011	Computer Science Applications	½ or 1
Programming & Software Development											
27120	Intro to Programming Languages	½ or 1	27120	Intro to Programming Languages	½ or 1	27120	Intro to Programming Languages	½ or 1	27120	Intro to Programming Languages	½ or 1
27122	Programming Essentials	½ or 1	27122	Programming Essentials	½ or 1	27122	Programming Essentials	½ or 1	27122	Programming Essentials	½ or 1
23012	CS Programming	½ or 1	23012	CS Programming	½ or 1	23012	CS Programming	½ or 1	23012	CS Programming	½ or 1
27123	Programming Essentials: Python	½ or 1	27123	Programming Essentials: Python	½ or 1	27123	Programming Essentials: Python	½ or 1	27123	Programming Essentials: Python	½ or 1
27124	Programming Essentials: C++	½ or 1	27124	Programming Essentials: C++	½ or 1	27124	Programming Essentials: C++	½ or 1	27124	Programming Essentials: C++	½ or 1
27125	Fundamentals of JAVA Programming	½ or 1	27125	Fundamentals of JAVA Programming	½ or 1	27125	Fundamentals of JAVA Programming	½ or 1	27125	Fundamentals of JAVA Programming	½ or 1
27127	Advanced JAVA Programming	½ or 1	27127	Advanced JAVA Programming	½ or 1	27127	Advanced JAVA Programming	½ or 1	27127	Advanced JAVA Programming	½ or 1
23015	Advanced CS Programming	½ or 1	23015	Advanced CS Programming	½ or 1	23015	Advanced CS Programming	½ or 1	23015	Advanced CS Programming	½ or 1
27128	Mobile Applications Development	½ or 1	27128	Mobile Applications Development	½ or 1	27128	Mobile Applications Development	½ or 1	27128	Mobile Applications Development	½ or 1
27130	Computer Gaming and Design	½ or 1	27130	Computer Gaming and Design	½ or 1	27130	Computer Gaming and Design	½ or 1	27130	Computer Gaming and Design	½ or 1
27131	Computer Gaming and Design 2	½ or 1	27131	Computer Gaming and Design 2	½ or 1	27131	Computer Gaming and Design 2	½ or 1	27131	Computer Gaming and Design 2	½ or 1
27170	Introduction to Web Design	½ or 1	27170	Introduction to Web Design	½ or 1	27170	Introduction to Web Design	½ or 1	27170	Introduction to Web Design	½ or 1
27500	Data Modeling & SQL	½ or 1	27500	Data Modeling & SQL	½ or 1	27500	Data Modeling & SQL	½ or 1	27500	Data Modeling & SQL	½ or 1
27510	CTE AP CS Principles	½ or 1	27510	CTE AP CS Principles	½ or 1	27510	CTE AP CS Principles	½ or 1	27510	CTE AP CS Principles	½ or 1
23582	AP Computer Science Principles	½ or 1	23582	AP Computer Science Principles	½ or 1	23582	AP Computer Science Principles	½ or 1	23582	AP Computer Science Principles	½ or 1
27520	CTE AP CS A	½ or 1	27520	CTE AP CS A	½ or 1	27520	CTE AP CS A	½ or 1	27520	CTE AP CS A	½ or 1
23580	AP Computer Science A	½ or 1	23580	AP Computer Science A	½ or 1	23580	AP Computer Science A	½ or 1	23580	AP Computer Science A	½ or 1
10820	PLTW Cybersecurity	½ or 1	10820	PLTW Cybersecurity	½ or 1	10820	PLTW Cybersecurity	½ or 1	10820	PLTW Cybersecurity	½ or 1
10810	PLTW Computer Science Essentials	½ or 1	10810	PLTW Computer Science Essentials	½ or 1	10810	PLTW Computer Science Essentials	½ or 1	10810	PLTW Computer Science Essentials	½ or 1
10815	PLTW Computer Science Principles	½ or 1	10815	PLTW Computer Science Principles	½ or 1	10815	PLTW Computer Science Principles	½ or 1	10815	PLTW Computer Science Principles	½ or 1
27995	IT Internship	½ to 4	27995	IT Internship	½ to 4	27995	IT Internship	½ to 4	27995	IT Internship	½ to 4
27999	Cooperative Work Experience	½ to 4	27999	Cooperative Work Experience	½ to 4	27999	Cooperative Work Experience	½ to 4	27999	Cooperative Work Experience	½ to 4
51012	Governor's School: Information Technology	½	51012	Governor's School: Information Technology	½	51012	Governor's School: Information Technology	½	51012	Governor's School: Information Technology	½
Must complete at least 2 credits						Must complete at least 2 credits					
Must complete at least 2 credits						Must complete at least 2 credits					

