



Southwest Area Career & Technical Education Academy

271 34th Street West
Dickinson, ND 58601
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About SWCTE

Southwest Area CTE Academy is currently a partnership of seven high schools and Dickinson State University. It offers opportunities in 14 different career and technical education programs that will help prepare students for future careers and success. While we would love to provide access to every student that wants to take our classes and programs, our challenge is the demand is greater than our capacity.

Some programs just can't accommodate the number of student requests, but we do our best to get everyone the opportunity to attend.

MISSION

Providing innovative education opportunities and workforce solutions... close to home.

VISION

Demonstrated success in meeting regional industry needs, maximizing each student's career potential, and being a recognized leader in career and technical education.

VALUES

- **Student Focused**

The learner always comes first. We develop and offer courses and programs that are focused on educating students so they may find their life's purpose.

- **Opportunity**

Education creates opportunity. We provide all students with the opportunity to learn skills that will equip them to go anywhere in life.

- **Innovative**

Innovation fosters positive change. We offer an innovative and hands-on educational environment for all learners.

- **Collaborative**

Partnerships are the heart of our work. We engage with our industry and regional partners in collaborative manner to provide solutions and strategies to meet Southwestern North Dakota's workforce needs.

School Day

We currently operate on a four instructional block day. Students attend classes at SWCTE for only a portion of their school day. Our school calendar follows Dickinson Public Schools. This includes staff professional development days and holidays. It is the expectation that your students attend all schedule class days.

Class Schedule

Block 1 Class Starts – 8:10 AM
 Class Release – 9:35 AM

Block 2 Class Starts – 10:00 AM
 Class Release - 11:25 AM

Block 3 Class Starts – 12:10 AM
 Class Release – 1:35 PM

Block 4 Class Starts – 2:00 PM
 Class Release – 3:25 PM

Classes and Rotations

1 credit classes meet every day for an entire semester.

½ credit classes meet alternate days for an entire semester

Location

Prior to the school year starting. Information will be sent to each student/family with location of their classes. There are three buildings on the SWCTE Campus used for classes and a few classes in agriculture and family and consumer sciences still meet at Dickinson High School. Transportation is on the family or school to get to and from class or students can ride the bus from Dickinson High School.

How to Register

- Registrations will only be accepted through our [online registration form](#). To sign up for classes please complete and submit the form. This link is also found at swcte.org
- In addition a [release of information](#) form must be completed and sent to SWCTE or emailed to jwolf@dpsnd.org
- A confirmation email from SWCTE Administration will be sent confirming enrollment. Communication on class times and location will be sent in Early August.
- When registering please put preferred instructional block for the class to be taken. We make every effort to place students in classes with preferred times but please know we are not always able to accommodate those requests. Sometimes the class isn't offered during that block or it has already filled.
- Please sign up now for the entire year. We need students to sign up for both 1st and 2nd semester classes when they register. Our class demands are very high every year therefore, it is difficult to fill enrollment requests after the school year has begun.
- Ensure that the student is committed to enrolling as we want to prevent class drops after the school year begins. That student could have taken a spot from someone else, so we want to ensure it goes to students that are committed to taking the course.

Registration Form URL: <https://forms.gle/vidGhSLZgJib1cTN9>



2025-2026 School Calendar

Approved by the Dickinson Public School Board January 2025

July 2025						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August 2025 = 8 Days						
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September 2025 = 20 Days						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Sept. 1 – Labor Day Observed

October 2025 = 21 Days						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Oct. 16 & 17 – Administrator Conference Dates

November 2025 = 15 Days						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Nov. 11 – Veterans Day & Nov. 27 – Thanksgiving

December 2025 = 15 Days						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

January 2026 = 19 Days						
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

January 1 – New Year's & Jan. 19 – MLK Day

February 2026 = 19 Days						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

February 16 – Presidents' Day Observed

March 2026 = 21 Days						
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April 2026 = 20 Days						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

April 3 – Good Friday Observed

May 2026 = 15 Days						
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

May 25 – Memorial Day Observed

June 2026						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Flexible Teacher Workday...Week of Aug. 11-13, 15, 19 and May 22
Inservice (No School).....Aug. 14 and 18th
First Day of School.....Aug. 20
Labor Day (No School).....Sept. 1
Inservice Day (No School).....Sept. 29
Administrator Conference (No School)... Oct. 16 & 17
Inservice Day (No School).....Nov. 10
Veterans Day Holiday (No School).....Nov. 11
Parent/Teacher Conf Comp Day (No School)...Nov. 26
Thanksgiving Holiday (No School).....Nov. 27
Thanksgiving Break (No School).....Nov. 28
Holiday Break.....Dec. 22-Jan. 2
School Resumes.....Jan. 5
Inservice/Martin Luther King Day (No School) Jan. 19
Presidents' Day Observed (No School).....Feb. 16
Inservice Day (No School).....March 16
Good Friday Holiday (No School).....April 3
Parent/Teacher Conf Comp Day (No School)...April 6
Early Release Day Dismisses at 1:00.....May 1
Early Release Day (School Dismisses at 1:00)...May 21
Last Day of School.....May 21
Graduation.....May 24

***Early Release Dates for Students (1:00 p.m. release)**
May 1, 2026 and May 21, 2026.

Student/Teacher Contact Days.....173 days
Inservice Days.....6 days
Parent/Teacher Conference Compensatory days... (November 26 and April 6).....2 days
Holidays – Veterans Day (Nov. 11), Thanksgiving (Nov. 27) & Good Friday (April 3).....3 days
Flexible Teacher Workday...Week of Aug. 11-13, 15, 19 and May 22.....1 day
Total Days.....185 days

- Student Contact Days
- Parent/Teacher Conference Comp. Days
- Professional Development Days
- Flexible Teacher workday: Aug. 11-13, 15, 19 and May 22
- Holidays

Class Schedule	
Block 1	Class Starts – 8:10 AM Class Release – 9:35 AM
Block 2	Class Starts – 10:00 AM Class Release - 11:25 AM
Lunch	
Block 3	Class Starts – 12:10 AM Class Release – 1:35 PM
Block 4	Class Starts – 2:00 PM Class Release – 3:25 PM

Parent Teacher Conference Dates:
All start @ 4:00-7:00 PM
Oct. 1, 2025
Nov. 19, 2025
Feb. 18, 2026
Apr. 29, 2026

COURSE OFFERING BY DEPARTMENT

AGRICULTURE

Instructors: Mrs. Kay Poland and Mr. Colbey Steeke

Electives	Grades
01035 Agricultural Business and Finance	10,11,12
01044 Agriculture Mechanics	10,11,12
01025 Agronomy (early entry)	11,12
01043 Basic Mechanics	9,10
01053 Botany & Horticulture Science I	9,10,11,12
01063 Environ & Nat Resources/Wildlife	10,11,12
01011 Introduction to Agriculture	9,10
01066 Small Animal Care	9,10,11,12
01067 Vet Science & Applied Animal Science	11,12

Agricultural Business & Finance #01035
Grades: 10,11,12 ½ credit

Description: Explore the dynamic world of agricultural business and finance in this engaging course. Students will learn essential business principles, financial management, and economic concepts tailored to the agriculture industry. Through hands-on projects and realworld case studies, participants will gain skills in budgeting, marketing, and business planning, preparing them for future careers in agriculture or further studies in agribusiness. This course combines classroom learning with practical experiences, fostering a comprehensive understanding of how financial decisions impact the success of agricultural enterprises.

Agriculture Mechanics #01044
Grades: 10,11,12 ½ credit

Description: Agriculture Mechanics II is designed to reinforce and extend students' understanding of applied mechanical applications. Students will be exposed to mechanical, fluid, electrical, and thermal power that are associated with the field of agriculture. Course activities may include metal fusion (welding), structures, surveying, electrical wiring

principles, agricultural power and equipment, plumbing, electric motors and controls, GIS and GPS systems.

Agronomy/Princ of Crop Prod (early entry) #01025
Grades: 11,12 ½ DHS credit

Description: This course is the study of plants, crops and forages, careers in agronomy, range, and forest service. This class will be taught outside of the DHS school day. Offered fall semester. *Fee required. Registration provides 3 college credits, PLSC 225.*

Basic Mechanics #01043
Grades: 9,10 ½ credit

Description: This course will provide you with the foundational knowledge and skills in welding and small engines. Students will learn to identify commonly used hand tools, proper safety and operation of mig and arc welding and torch-cutting equipment, and about motors, fluids, and general maintenance. *For freshmen and sophomores, this will be the prerequisite to enter the welding, automotive, and/or diesel technology programs.*

Botany and Horticulture Science I #01053
Grades: 9,10,11,12 ½ credit

Description: This course is designed to introduce the student to the many careers and opportunities associated with horticulture science. Practical "hands-on" instruction in the greenhouse lab will include planting from seed, plant grafting, plant growth, plant cell structure, propagation, and gardening. Care and maintenance of trees will also be included.

Environmental & Natural Resources/Wildlife #01063
Grades: 10,11,12 ½ credit

Description: This course provides an opportunity for students to increase awareness of the close ties among living organisms, and natural and environmental concerns with the interrelationships of living organisms and the world around us.

Introduction to Agriculture #01011
Grades: 9,10 ½ credit

Description: A "hands-on" approach to general

agriculture designed to introduce students to all aspects of agriculture including livestock production, soils, range, new precision agriculture, with a plants/animal focus.

Small Animal Care #01066

Grades: 9,10,11,12 ½ credit

Description: This course is an overview of small animal industry. Students will learn breed ID, health care, nutrition, reproduction, and general knowledge of dogs, cats, fish, birds, and rabbits. This course will also cover the leadership event for the state small animals.

Supervised Agricultural Experience #01995

Grades: 10,11,12 (Summer only) ¼ credit

Description: This class offers personalized, realworld projects in crops, livestock, and more. Students apply their classroom learning in a guided program in a work placement or developing their own agricultural enterprise. Offered only in the summer. *Prerequisite: Intro to Ag.*

Vet Science & Applied Animal Science #01067

Grades: 11,12 1 credit

Description: Students will be introduced to the career opportunities involved with animal science, veterinary science, animal physiology, animal breeding, marketing, and genetics. Livestock judging will be covered as part of the state leadership and career development skills.

BUSINESS/OFFICE/FINANCE

Instructors: Mrs. Kelly Olson and Ms. Brenda Loney

The Business Department provides students with fundamental business knowledge and skills. Students develop ethical business standards, personal and professional excellence for career preparation, educational advancement, and personal success. Students are encouraged to join Future Business Leaders of America (FBLA), an organization that fosters leadership development, community involvement, and participation in state and national competitions.

Electives Grades

14010 Accounting I	10,11,12
14011 Accounting II	10,11,12
14096 Advanced Comp Apps – MS Word I	9,10,11,12
14024 Business Computer Applications	9,10,11,12
14111 Entrepreneurship	11,12
14098 Graphic Design	10,11,12
14230 Introduction to Business	9,10,11,12
14231 Management I	10,11,12
14095 Personal Finance	9,10,11,12
14022 Web Design	10,11,12

Accounting I #14010

Grades: 10,11,12 ½ credit

Description: Accounting I is an introductory course designed to develop a basic understanding of accounting principles, concepts, terminology, and procedures. Students will complete an accounting cycle for a service business organized as a proprietorship. Students will also be introduced to QuickBooks. Students headed into the business world, planning on a business degree in college, or starting their own business should have accounting knowledge.

Accounting II #14011

Grades: 10,11,12 ½ credit

Description: Accounting II is a continuation of Accounting I and will provide students with more detailed accounting knowledge than Accounting I. Students will complete an accounting cycle for a merchandise business organized as a corporation. QuickBooks is continued in the study of corporation accounting. *Prerequisite: Accounting I.*

Adv Computer Applications, MS Word I 14096

Grades: 9,10,11,12 ½ credit

Description: 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, composing, and proofreading. Course long emphasis will include improving

keyboarding speed and accuracy.
Prerequisite: Business Computer Apps.

Business Computer Applications 14024

Grades: 9,10,11,12 ½ credit

Description: Students will continue to develop skills in various computer applications and using various input and output devices in order to gather information, design, present, and evaluate projects. The course will include ethical uses of computers and information. The course would be helpful for all students. This course is a prerequisite to taking any other computer class.

Entrepreneurship #14111

Grades: 11,12 ½ credit

Description: Students examine the principles and techniques of planning, control, and decision-making of business organizations from an entrepreneurial perspective. This is an upper-level business class designed to introduce students to concepts and opportunities regarding business ownership. It includes units on recognizing opportunity, your potential as an entrepreneur, business planning, market analysis, marketing planning, price strategy, and promotion strategy.
Prerequisite: Introduction to Business.

Graphic Design #14098

Grades: 10,11,12 ½ credit

Description: Students will learn the process of creating professional documents using MS Publisher, Adobe InDesign, Photoshop, Illustrator, internet sites, and digital equipment. In addition, students will learn basic marketing skills and graphic design tools to customize documents to specific audiences. Instruction will be provided to produce original layouts for newsletters, brochures, catalogs, business cards, letterheads, invitations, cards, logos, flyers, and other materials. *Prerequisite: Business Computer Applications.*

Introduction to Business #14230

Grades: 9,10,11,12 ½ credit

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

Management I #14231

Grades: 10,11,12 ½ credit

Description: Students in Management I are introduced to the field of business management and organizational theory. Topics include ethics, leadership, motivation, planning, personal and conflict management skills, human resource functions, teamwork, and goal setting.

Personal Finance #14095

Grades: 9,10,11,12 ½ credit

Description: Students will study the impact of financial choices on personal and occupational goals and future earnings potential. Real world topics include checking accounts, budgeting, saving for large purchases, using credit cards, figuring interest and fees, being a responsible consumer, earning power, learning about taxes and paycheck withholding, college costs, mortgages, retirement savings, and financial decisions. *Prerequisite: successful completion of Advanced Algebra I or Algebra I Part II.*

Web Design #14022

Grades: 10,11,12 ½ credit

Description: 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 (e.g. video, animation, sound, forms, contacts, and other additional components). *Prerequisite: Business Computer Applications.*

programming language syntax, semantic, and runtime environment, as well as general coding techniques and object-oriented programming.

COMPUTER SCIENCE

Instructor: Mr. Samuel Adjei

Electives	Grades
10810 Computer Science Essentials I	9,10,11,12
10810 Computer Science Essentials II	9,10,11,12
27123 Computer Prog Essentials/Python	10,11,12
27280 Cybersecurity I	10,11,12
27130 Computer Gaming and Design	10, 11,12

Computer Science Essentials I #10810
Grades: 9,10,11,12 ½ credit

Description: Students will explore a diverse set of computational thinking concepts, fundamentals, and tools. Want to learn to build an app? Understand basic coding? This course provides projects and problems that include app development, visualization of data, cybersecurity, and simulations.

Computer Science Essentials II #10810
Grades: 9,10,11,12 ½ credit

Description: A continuation of Computer Science Essentials I. Students will explore a diverse set of computational thinking concepts, fundamentals, and tools. Want to learn to build an app? Understand basic coding? This course provides projects and problems that include app development, visualization of data, cybersecurity, and simulations. *Prerequisite: Computer Science Essentials I.*

Computer Prog Essentials/Python #27123
Grades: 10,11,12 ½ credit

Description: The aim of this course is to familiarize the student with general computer programming concepts like conditional execution, loops, Python

Cybersecurity I #27280
Grades: 10,11,12 ½ credit

Description: Cybersecurity covers trends in cybersecurity and career opportunities. Course modules will define cybersecurity, explain why it's important, and introduce products and processes used to secure data. Students will also explore why cybersecurity is critical in business and medical industries, how hackers use unsuspecting individuals to propagate malware, and why cybersecurity is a growing profession.

Computer Gaming and Design #27130
Grades: 10,11,12 ½ credit

Description: In this engaging and interactive course, students will explore the fundamentals of computer game development and design. Through hands-on projects, students will learn key concepts in game mechanics, storytelling, graphics, animation, and programming. Using industry-standard software and game engines, students will design, prototype, and develop their own video games. Students will collaborate on projects, develop problem-solving skills, and learn about the growing field of game development. By the end of the course, students will have a portfolio of their own games and interactive experiences, preparing them for further studies or careers in game design, software development, or digital media.

CULINARY ARTS

Instructor: Mr. Collin Wehner

Electives	Grades
17050 Culinary Arts I	10,11,12
17051 Culinary Arts II	11,12

Culinary Arts I #17050
 Grades: 10,11,12 1 credit
 Description: To prepare students for occupations concerned with the preparation and service of food. Content may include safety and sanitation, organization of food preparation and service areas, developing skill in quantity food preparation, menu planning and recipe selection, food purchasing, financial management, leadership development, and opportunities in food service. This class will include approximately 9 labs.
Prerequisite: Food Preparation.

Culinary Arts II #17051
 Grades: 11,12 2 credits
 Description: Culinary Arts II continues training for food service occupation and includes topics on financial management, current issues in food service, and advanced culinary skills. The Culinary Arts program prepares students for college programs in food service.
Prerequisite: Culinary Arts I.

changing relationships within the family, current issues relating to children and families, and sources of support and assistance.

Early Childhood Education #09211
 Grades: 10,11,12 1 credit
 Description: To prepare the student for employment in elementary education, child care centers, or for self-employment in homebased child care. Students will plan the DHS Tiny Tikes Preschool, write lesson plans, and teach lessons to children ages 3-5. Content will include career maturity skills, child care facilities, planning for children's needs, protecting the child's health and safety, children with special needs, working with parents, and leadership development.
Prerequisite: Child Development.

Fashion Design #09027
 Grades: 10,11,12 1 credit
 Description: This course builds upon the skills learned in Textiles and Clothing. This course will provide students with knowledge and skills to identify and incorporate design details in garments, assess and upgrade commercially produced patterns or products, and perform repairs and/or alterations. This class will also explore different careers that are available in the fashion industry. Lab experiences may include design and/or construction of one or more projects related to the concepts taught. All members of Fashion Design will participate in the fashion show that takes place in the spring of the year.
Prerequisite: Textiles and Clothing.

FAMILY AND CONSUMER SCIENCE

Instructors: Mrs. Heather Blum, Mrs. Leslie Wilkie, Mrs. Laura Tangen

Electives	Grades
09026 Child Development	9,10,11,12
09211 Early Childhood Education*	10,11,12
09027 Fashion Design	10,11,12
09030 Fashion Marketing and Merchandising	10,11,12
09131 Food Preparation	9,10,11,12
09137 Fund. of Nutrition & Wellness*	10,11,12
09025 Independent Living	11,12
09041 Introduction to Teaching*	11,12
09041 Introduction to Education (early entry)	12
09027 Textiles and Clothing	9,10,11,12

Child Development #09026
 Grades: 9,10,11,12 ½ credit
 Description: To increase students' knowledge of how children grow and develop. Content will include how children learn, age-appropriate activities for children, family development and preparation for parenthood, prenatal development,

Food Preparation #09131
 Grades: 9,10,11,12 ½ credit
 Description: This course explains the importance of nutrition and basic food preparation techniques. Included are approximately 9 labs to simulate home cooking experiences using ingredients like bread dough, milk products, eggs, meats, fruits, and vegetables. This class will benefit students in everyday life, as well as careers in food service,

restaurant management, health, and fitness.

digestion, major nutrients, food choices, and nutritional labels. Guaranteed one cooking lab.

Independent Living

#09025

Grades: 11,12

½ credit

Description: To prepare students for responsibilities involved in becoming self-sufficient young adults preparing for life away from the parental home during or immediately following high school. Course content may include living independently; making financial decisions; making choices about housing, nutrition and food, clothing, transportation, health and wellness; using time to achieve personal goals; finding balance in life; current issues that affect personal decisions; societal and environmental impacts of personal decisions; sources of support and assistance in the community; leadership development.

Introduction to Teaching

#09041

Grades: 11,12

1 credit

Description: Students will explore career opportunities in the elementary, middle, and high schools. This course introduces students to the duties and responsibilities of teachers, counselors, and administrators. Students will observe a variety of grade level classrooms, utilize their child development knowledge to develop lesson plans, and experience teaching in a controlled environment. Field trips to various schools and alternative school settings will be provided. *Prerequisite: Child Development.*

Nutrition & Wellness

#09137

Grades: 10,11,12

½ credit

Description: This course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness. Topics include basic nutrients, weight management, sports/fitness, life-span nutrition, and careers. This course emphasizes an understanding of today's food and eating trends while giving students the capacity to evaluate all available sources of nutrition. Specific unit topics include a course introduction,

Textiles and Clothing

#09027

Grades: 9,10,11,12

½ credit

Description: The focus of this course is to provide the student with the basic knowledge of textiles, the construction of fabric and of clothing. Students will develop skills in construction and use of equipment, visual design, color, textile characteristics, and safety of equipment. Students will create projects and will need no previous experience of sewing skills. Students are expected to purchase their own supplies for class.

Introduction to Education (early entry) #09041

Grades: 12

½ DHS credit

Description: A study of teaching as a profession, including historical, philosophical, social, and psychological foundations of education. This course will provide a general overview of all aspects of the teaching profession and serve as a general introduction to all professional education courses. Students will gain an understanding of DSU's teacher education theme and model and be given opportunities to apply their skills in peer teaching exercises. Through participation in the course, students will evaluate their commitment to becoming a professional educator. This course includes structured observations to expose students to a variety of teaching/learning scenarios across the K-12 spectrum. *Offered in alternating years for 3 college credits, EDUC 250. DHS Pre-requisites: Introduction to Teaching.*

HEALTH SCIENCES

Instructors: Ms. Courtney Sadowsky, Ms. Jaclyn Guillaume, Ms. Lynette Silbernagel

Electives	Grades
07032 Certified Nurse Aid	10,11,12
07999 Health Occupation Experience Program	11,12
07033 Health Science I	9,10,11
07035 Health Science II	11,12

07034 Introduction to Sports Medicine 10,11,12
 07036 Medical Terminology (dual credit) 11,12

Certified Nurse Aid #07032
 Grades: 10,11,12 1 credit

Description: This course provides classroom instruction to those interested in becoming a Certified Nurse Aid. This course teaches fundamental nursing skills performed by a Certified Nurse Aid, 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. Certification is not issued upon completion of the class, but students will have the opportunity to take the state board exam to acquire certification after this course. *Prerequisite: C or better in Health Science I or Emergency Medical Responder.*

Health Occupation Experience Program #07999
 Grades: 11,12 ½ credit per semester, max of 4

Description: 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/guardian) 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 the 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: Certified Nursing Assistant, Dental Assisting, Direct Support Staff (Able, Inc.), EMT, Pharmacy Technician. Any other health related areas of interest may be accommodated for internships if placement is possible (PT, OT, Speech Therapy, Lab, Vet, EMS, etc.). Prerequisite: C or better in Health Science II as well as teacher recommendation based on prior attendance and behavior plans.

- Certified Nursing Assistant (different from the inperson CNA course offered): the student is hired as an employee at a nursing home. The student will be expected to show up for scheduled shifts, meetings, and other job requirements, and to complete assigned work tasks.
- Dental Assistant: the student 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) obtained, the student will have the opportunity to apply for North Dakota licensure as a Qualified Dental Assistant. Apply your sophomore year for consideration.
- 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 to 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.

Health Science I #07033
 Grades: 9,10,11 1 credit

Description: 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, and 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.

professionals in sports medicine during this course. Students will obtain their American Heart Association Basic Life Support (BLS) certification. *Registration for college credits may be available: HPER 207 (2 credits). Prerequisite: Health Science I.*

Health Science II

#07035

Grades: 11,12

1 credit

Description: This course has been developed to provide students interested in the medical field an in-depth study of a career of their choice. The program is a competency-based individualized curriculum in which the student will learn to balance various aspects of health and wellness, improve self-esteem, and make knowledgeable decisions regarding their career choice. A primary component of the course offers in-depth career studies. Students will expand their skills and knowledge in specific areas of interest during clinical rotations in the community. Emphasis is on academics, professional development, leadership, and organizational skills are integrated throughout the curriculum. The students will also obtain their American Heart Association Basic Life Support (BLS) certification, HIPAA certification, and create their own career portfolio. *Students must provide their own transportation to job shadow locations. Prerequisite: C or better in Health Science I, as well as teacher recommendation based on prior attendance and behavior plans.*

Introduction to Sports Medicine (dual credit) #07034

Grades: 10,11,12

1 credit

Description: 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

Medical Terminology (dual credit)

#07036

Grades: 11,12

1 credit

Description: 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 body system. Anatomy and physiology of major organs, pathological conditions, laboratory studies, clinical procedures, and abbreviations for each body system. *Registration for college credits may be available: BOTE 171 (3 credits). Prerequisite: C or better in most recent science class.*

PUBLIC SAFETY

Instructors: Dickinson Fire Department and Dickinson Police Department

Electives	Grades
07045 Emergency Medical Responder	10,11,12
07100 Firefighter I (dual credit)	11,12
07100 Firefighter II (dual credit)	12
07999 Health Occupation Experience Program	11,12
07044 Intro to Emergency Services	10,11,12
07200 Law Enforcement I (dual credit)	11,12
07200 Law Enforcement II (dual credit)	11,12

Emergency Medical Responder

#07045

Grades: 10,11,12

1 credit

Description: This course introduces high school students to the fundamental skills and knowledge required for emergency medical response. Students will learn how to assess and manage medical emergencies, perform basic first aid, CPR, and assist in trauma care. Topics include patient assessment, airway management, bleeding control, shock treatment, and basic life support techniques. Through hands-on training

and scenario-based learning, students will develop the confidence and skills needed to respond effectively to emergency situations. This course serves as a foundation for those interested in pursuing careers in emergency medical services, healthcare, or public safety.

rescue strategies, ventilation, and fireground operations. This course prepares students for Firefighter 2 certification and is ideal for those seeking to further their education and training in emergency services and firefighting careers. *Registration for college credits may be available: FIRE 102/102. Prerequisite: Firefighter I, including successful completion of Hazardous Materials Operations certification.*

Firefighter I (dual credit)

#07100

Grades: 11,12

1 credit

Description:

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 course work covers key concepts, while skills days, held approximately once a month, provide students with practical, inperson training. This course is designed to prepare students for further certification in fire services and is ideal for those interested in pursuing a career in emergency response or firefighting. Students must be at least 16 years old to take this class. *Registration for college credits may be available: FIRE 101/101L. Prerequisite: Intro to Emergency Services.*

Health Occupation Experience Program #07999

Grades: 11,12

½ credit per semester, max of 4

Description:

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/guardian) 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 the 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: Certified Nursing Assistant, Dental Assisting, Direct Support Staff (Able, Inc.), EMT, Pharmacy Technician. Any other health related areas of interest may be accommodated for internships if placement is possible (PT, OT, Speech Therapy, Lab, Vet, EMS, etc.). Prerequisite: C or better in Health Science II as well as teacher recommendation based on prior attendance and behavior plans.*

Firefighter II (dual credit)

#07100

Grades: 12

1 credit

Description:

This course is designed for high school students who have completed Firefighter 1 and wish to build on their knowledge and skills in advanced firefighting techniques. Students will dive deeper into fire suppression, rescue operations, incident command, and hazardous materials response. This hybrid course combines online learning modules with hands-on skills days, held approximately once a month, where students will practice advanced firefighting techniques in real-world scenarios. Topics include advanced fire behavior, search and

- Emergency Medical Technician:** This course prepares the student to respond to a wide range of emergencies such as heart attacks, auto accidents, and other medical and trauma related problems. Students participate in extensive hands-on practical sessions using modern pre-hospital care equipment under the instruction of emergency care professionals. This course is facilitated through the Dickinson Fire Department. Course expectations include attending skill nights at the DFD. Course lecture nights are facilitated online. Students are encouraged to be present with their classmates to participate in the lecture together. Students must pass the course with 76.5% or better to be eligible to take the NREMP certification exam. The NREMP exam cost is \$80 and the student is responsible for the cost. Ride-along time with a local ambulance service is a requirement of the course for licensure and certification. Other course costs are covered by the Rural EMS Grant and RACTC. Dual credit option through NDSCS with a cost of \$153.96/credit plus a \$95/credit instructor fee. See link below for information.

<https://www.ndscs.edu/become><https://www.ndscs.edu/become-wildcat/admission-information/dual-credit/tuition-and-fees>[wildcat/admission-information/dual-credit/tuition-and-fees](https://www.ndscs.edu/become-wildcat/admission-information/dual-credit/tuition-and-fees)[credit/tuition-and-fees](https://www.ndscs.edu/become-wildcat/admission-information/dual-credit/tuition-and-fees)

Prerequisite: Student must have taken and passed with a C or better one of the following:

Health Science 1 or Medical Terminology, as well as teacher recommendation based on prior attendance and behavior plans.

Intro to Emergency Services

#07044

Grades: 10,11,12

1 credit

Description: This course provides an introductory overview of the essential concepts, skills, and responsibilities involved in emergency medical services (EMS) and fire services. Designed for students seeking a foundational understanding of emergency response, the course explores key topics such as emergency medical techniques, fire safety procedures, rescue operations, and the roles of EMS and fire personnel within the broader emergency services

system. Through hands-on training, students will gain practical experience in basic EMS skills, including patient assessment, first aid, CPR, and emergency response protocols. Fire service components will cover fire prevention, suppression techniques, and the principles of safe fire operations. Students will also study the interagency collaboration necessary for effective emergency response, including communication, teamwork, and decision-making in high-stress situations. Upon completion, students will have a solid foundation in both EMS and fire service operations, preparing them for further training in specialized emergency services fields. This course is ideal for those interested in pursuing careers in public safety, firefighting, emergency medical services, or related areas.

Law En I: Intro to Criminal Justice (dual credit) #07200

Grades: 11,12

1 credit

Description: This course is your gateway to the world of criminal justice! This course gives you a behind-the-scenes look at how law enforcement works, from the police officers on the front lines to the courts and correction systems. You'll dive into the basics of criminal law, criminal investigations, and the important roles played by law enforcement in keeping our communities safe. With hands-on activities, real-world scenarios, and engaging discussions, you'll develop a deeper understanding of justice, fairness, and how the legal system operates. *Registration for college credits may be available: CJ 201 (3 credits).*

Law En II: Policing in America (dual credit) #07200

Grades: 11,12

1 credit

Description: This exciting and dynamic course delves into the world of law enforcement and the vital role police play in shaping our communities. Students will explore the history, evolution, and future of policing, while learning about the complexities of modern law enforcement practices.

Through hands-on activities, real-life case studies, and guest speakers, you'll gain an understanding of criminal law, investigations, ethics, and public safety. Course will be taught by a member of the Dickinson Police Department. *Registration for college credits may be available: CJ 210 (3 credits).*

(Computer Aided Drafting) skills while working independently on a variety of projects. Project Management will be explored and job shadows will be encouraged. Presentation skills will also be emphasized. The student will use their knowledge to research and produce drawing packages in different fields of drafting. SkillsUSA membership is expected. *Prerequisite: Architecture & Engineering I (formerly Drafting).*

TRADES

Instructors: Mr. Jakob Ohl, Mr. Jerry Hays, Mr. Scott Schmidt, Mrs. Marjorie Lehman, Mr. Jonah Nelson, Mr. Clarence Hauck

Electives	Grades
17130 Architecture & Engineering I	9,10,11,12
17131 Architecture & Engineering II	10,11,12
17038 Automotive General Service Tech I	10,11,12
17039 Automotive General Service Tech II	11,12
01043 Basic Mechanics	9,10
17100 Construction Tech I	10,11,12
17117 Construction Tech II	11,12
17105 Design and Build	9,10
17040 Diesel Technology I	10,11,12
17041 Diesel Technology II	11,12
17200 Heavy Equipment Operation I	11,12
17201 Heavy Equipment Operation II	11,12
17130 Interior Design	9,10,11,12
17045 Intro to Commercial Driving License (CDL)	12
17236 Welding I	10,11,12
17237 Welding II	11,12
##### Mechatronics I Certificate	11,12
Work Based Learning	11,12

Architecture & Engineering I #17130
 Grades: 9,10,11,12 1 credit
 Description: FORMERLY DRAFTING The student will use CAD (Computer Aided Drafting) to complete drawings used in different fields of drafting. The student will develop a proficiency in CAD commands and their applications. The student will utilize various software programs and work in 2D and 3D formats. SkillsUSA membership is encouraged.

Architecture & Engineering II #17131
 Grades: 10,11,12 2 credits
 Description: FORMERLY ADVANCED DRAFTING The student will use advanced CAD

Automotive General Service Tech I 17038
 Grades: 10,11,12 1 credit

Description: The General Service Technology program begins with an orientation to the eight areas of NATEF standardized programming – engine repair, automatic transmissions, manual drive, suspension and steering, brakes, electrical/electronic systems, heating and air conditioning, and engine performance. *Prerequisite: Basic Mechanics. This is a sequential course and is a prerequisite to Automotive General Service Tech II.*

Automotive General Service Tech II #17039
 Grades: 11,12 2 credits

Description: The second year General Service Technology program consists of continuing orientation to engine repair, automatic transmissions, manual drive, suspension and steering, brakes, electrical/electronic systems, heating and air conditioning, and engine performance. Students must complete the Electrical/Electronic Systems standard to pass the course. Automotive General Service Technology is a preparatory program to enter college Automotive Technology. *Prerequisite: Automotive Technology I.*

Basic Mechanics #01043
 Grades: 9,10 1/2 credit

Description: This course will provide you with the foundational knowledge and skills in welding and small engines. Students will learn to identify commonly used hand tools, proper safety and operation of mig and arc welding and torch-cutting equipment, and about motors, fluids, and general maintenance. *For freshmen and*

sophomores, this will be the prerequisite to enter the welding, automotive, and/or diesel technology programs.

Construction Tech I #17100

Grades: 10,11,12 1 credit

Description: Students will learn about materials of the construction industry including lumber and manufactured products. Students will build a project or projects that will allow them to improve their tool and woodworking skills.
Prerequisite: Design and Build.

Construction Tech II #17117

Grades: 11,12 2 credits

Description: This course is designed to teach the use of woodworking machines and hand tools necessary for the construction of a residential dwelling. Classroom instruction as well as practical application is included.
Prerequisite: Construction Tech I.

Design and Build #17105

Grades: 9,10 ½ credit

Description: In this class, students will learn how to design and build various wood projects and be exposed to the opportunities available in the architecture and construction industry. They will gain an understating of the processes involved in construction projects including safety, tool operation and selection. *For freshmen and sophomores, this will be the prerequisite to enter the Construction Tech class series.*

Diesel Technology I #17040

Grades: 10,11,12 1 credit

Description: This course allows students to experience a variety of heavy diesel and heavy equipment practices. Students will explore the field of diesel repair and will learn the basics of safety, equipment identification, and the use of hand and power tools in the lab setting. Students will learn about careers within the diesel industry.
Prerequisite: Basic Mechanics.

Diesel Technology II #17041

Grades: 11,12 2 credits

Description: This course is a continuation of Diesel Technology I. Students will learn advanced diesel concepts in fuel systems, steering and suspension, service and repair of electrical and electronic controls and systems, engines, drive trains, hydraulics, and brake systems. *Prerequisite: Diesel Technology I.*

Heavy Equipment Operation I #17200

Grades: 11,12 1 credit

Description: This course provides students with an introduction to the basic equipment used in the construction industry. Students will learn concepts of safety, maintenance, mathematics, and communication that Operating Engineers may experience. In addition, they will learn about basic equipment operations and job responsibilities.
Offered fall semester.

Heavy Equipment Operation II #17201

Grades: 11,12 1 credit

Description: Students will be introduced to and operate core equipment used by operators in the construction industry, as well as their maintenance needs. Communication processes used by operators, rigging and signaling practices, safety awareness, and mathematical concepts related to the construction industry are also covered.
Offered spring semester. Prerequisite: Heavy Equipment I.

Interior Design #17130

Grades: 9,10,11,12 ½ credit

Description: The student will use manual drafting techniques as well as CAD (Computer Aided Drafting) to create 2D, 3D, and perspective presentation drawings. The student will utilize online vendors as well as local industry to create project design boards. Presentation skills will also be emphasized. SkillsUSA membership is encouraged.

Intro to Commercial Driving License #17045

Grades: 12 1 credit

Description: The focus of this class is to give the students an understanding and skills to

obtain a CDL certification. Students will start with the basics and move up to the finer points of the trade. Driving will start in a simulated environment and progress to real-world experience. *Students must possess a valid driver's license to take this course.*

Welding I

#17236

Grades: 10,11,12

1 credit

Description: This welding class will cover safety, arc, wire, and oxy-acetylene welding and cutting. Students interested in the fields of automotive, machine, welding, refrigeration, and engineering will find the class helpful in college and the work force. *Prerequisite: Basic Mechanics.*

Welding II

#17237

Grades: 11,12

2 credits

Description: This course will cover all types of welding, such as stick welding, oxyacetylene welding, TIG welding, and MIG welding in all positions. Students will complete some projects. Blueprint reading and weld symbols are introduced. SkillsUSA membership is expected. *Prerequisite: Welding I.*

Industrial Automation & Robotics Program (Mechatronics I Certificate)

Grades: 11,12 classes

4 – ½ credit

Description: Jumpstart your career in industrial automation and robotics with Bismarck State College's *Mechatronics I Certificate*. This pathway offers four hands-on courses designed to equip you with essential skills in automation, including:
 ELEC 100: Direct Current Analysis
 ELEC 120: AC Circuit Analysis with practical lab work.
 ESRE 213: Hydraulic Fundamentals, focusing on industrial machine applications.
 ESRE 216: Mechanical Drive Systems, teaching the core technologies powering automation.

Offered over two semesters (Fall and

Spring) led by BSC instructors, this program provides a flexible learning experience. Classes are held in Building B, Room 208, SWCTE campus. BSC

instructors will be in person for hands on lab days with asynchronous online classes the other days. Students who sign up for this pathway will be placed in one fall section and one spring section. Seniors are eligible to sign up but will only complete part of the pathway. The Fall 2025 class will be ESRE 216, with ESRE 213 as the possible course for Spring 2026, which would mean that ELEC 100 and ELEC 120 would be taught in the 2026-2027 year. Ideal students are the ones who are interested in advancing their mechanical skills and harnessing their tech skills for careers in SWND. Prepare for in-demand careers in manufacturing, food and beverage, energy, logistics, and more, with skills that are highly sought after in the growing field of industrial automation. Enroll today and take your first step toward a degree in Industrial Automation & Robotics!

WORK BASED LEARNING

Instructor: Mr. Chris Kovash

Work Based Learning

Grades: 11,12

1-4 credits

Description: This course gives students the unique opportunity to jump into the “world of work” with companies and organizations within the community. This is an extension of the classroom into a workplace setting, giving students on-the-job work experience. Students must apply using the work based learning application to be admitted to the course. Deadline to apply: March 15, 2025 for Fall Semester placement; October 1, 2025 for Spring Semester placement.

Petroleum Production, Power Process or Mechanical Maintenance (Operator I Certificate) (Hybrid)

Grades: 11,12

4 – ½ credit classes

Description: This program offers specialized pathways in Operations, Maintenance, and Automation, equipping students with the skills needed for careers in industrial and energy-related fields. With focused tracks in Petroleum Production, Power Process Technology, Mechanical Maintenance, Industrial Automation, Renewable Energy, and Instrumentation & Control, students gain hands-on training and technical expertise to excel in high-demand industries.

ENRT 100: Operations, Safety and Environment

ENRT 109: Equipment and Systems

ENRT 112: Print Reading

ENRT 119: Industry Science

Offered over two semesters (Fall and Spring) with synchronous online classes led by BSC instructors, this program provides a flexible learning experience. Students that sign up for this pathway will be placed in one fall section and one spring section. Seniors are eligible to sign up but will only complete part of the pathway. Tentative course offerings for 2025-2026 school year are ENRT 100 (Fall) and ENRT 109(Spring), but that is subject to change. Ideal students are the ones who are interested in advancing their mechanical skills and harnessing their tech skills for careers in SWND. Prepare for in-demand careers.

ONLINE and HYBRID LEARNING OPTIONS.

These are class options that students will be enrolled in an online course, hybrid will have an online course work and students will travel to the SWCTE Campus a minimum of four/five times during a semester for the entire day.

Architecture & Engineering I (Online) #17130

Grades: 9,10,11,12

1 credit

Description: The student will use CAD (Computer Aided Drafting) to complete drawings used in different fields of drafting. The student will develop a proficiency in CAD commands and their applications. The student will utilize various software programs and work in 2D and 3D formats. SkillsUSA membership is encouraged. **Students will be required to have a laptop capable of running CAD software.**

Cybersecurity (Online)

#27280

Grades: 10,11,12

½ credit

Description: Cybersecurity covers trends in cybersecurity and career opportunities. Course modules will define cybersecurity, explain why it's important, and introduce products and processes used to secure data. Students will also explore why cybersecurity is critical in business and medical industries, how hackers use unsuspecting individuals to propagate malware, and why cybersecurity is a growing profession.

Firefighter I (dual credit) Hybrid

#07100

Grades: 11,12

1 credit

Description: 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 course work covers key concepts, while skills days, held approximately once a month, provide students with practical, inperson training. This course is designed to prepare students for further certification in fire services and is ideal for those interested in pursuing a career in emergency response or firefighting. Students must be at least 16 years old to take this class. *Registration for college credits may be available: FIRE 101/101L. Prerequisite: Intro to Emergency Services.*

Firefighter II (dual credit) Hybrid

#07100

Grades: 12

1 credit

Description: This course is designed for high school students who have completed Firefighter 1 and wish to build on their knowledge and skills in advanced firefighting techniques. Students will dive deeper into fire suppression, rescue operations, incident command, and hazardous materials response. This hybrid course combines online learning modules with hands-on skills days, held approximately once a month, where students will practice advanced firefighting techniques in real-world scenarios. Topics include advanced fire behavior, search and rescue strategies, ventilation, and fireground operations. This course prepares students for Firefighter 2 certification and is ideal for those seeking to further their education and training in emergency services and firefighting careers. *Registration for college credits may be available: FIRE 102/102. Prerequisite: Firefighter I, including successful completion of Hazardous Materials Operations certification.*

Industrial Automation & Robotics Program (Mechatronics I Certificate) through BSC

Grades: 11,12

4 – ½ credit

classes

Description: Jumpstart your career in industrial automation and robotics with Bismarck

State College's *Mechatronics I Certificate*. This pathway offers four hands-on courses designed to equip you with essential skills in automation, including:

- ELEC 100: Direct Current Analysis
- ELEC 120: AC Circuit Analysis with practical lab work.
- ESRE 213: Hydraulic Fundamentals, focusing on industrial machine applications.
- ESRE 216: Mechanical Drive Systems, teaching the core technologies powering automation.

Offered over two semesters (Fall and Spring) led by BSC instructors, this program provides a flexible learning experience. Classes are held in Building B, Room 208, SWCTE campus. BSC

instructors will be in person for hands on lab days with asynchronous online classes the other days. Students who sign up for this pathway will be placed in one fall section and one spring section. Seniors are eligible to sign up but will only complete part of the pathway. The Fall 2025 class will be ESRE 216, with ESRE 213 as the possible course for Spring 2026, which would mean that ELEC 100 and ELEC 120 would be taught in the 2026-2027 year. Ideal students are the ones who are interested in advancing their mechanical skills and harnessing their tech skills for careers in SWND. Prepare for in-demand careers in manufacturing, food and beverage, energy, logistics, and more, with skills that are highly sought after in the growing field of industrial automation. Enroll today and take your first step toward a degree in Industrial Automation & Robotics!

Petroleum Production, Power Process or Mechanical Maintenance (Operator I Certificate) (Hybrid)

Grades: 11,12 4 – ½ credit classes

Description: This program offers specialized pathways in Operations, Maintenance, and Automation, equipping students with the skills needed for careers in industrial and energy-related fields. With focused tracks in Petroleum Production, Power Process Technology, Mechanical Maintenance, Industrial

Automation, Renewable Energy, and Instrumentation & Control, students gain hands-on training and technical expertise to excel in high-demand industries.

- ENRT 100: Operations, Safety and Environment
- ENRT 109: Equipment and Systems
- ENRT 112: Print Reading
- ENRT 119: Industry Science

Offered over two semesters (Fall and Spring) with synchronous online classes led by BSC instructors, this program provides a flexible learning experience. Students that sign up for this pathway will be placed in one fall section and one spring section. Seniors are eligible to sign up but will only complete part of the pathway. Tentative course offerings for 2025-2026 school year are ENRT 100 (Fall) and ENRT 109(Spring), but that is subject to change. Ideal students are the ones who are interested in advancing their mechanical skills and harnessing their tech skills for careers in SWND. Prepare for in-demand careers.

Construction Tech I (Hybrid) #17100

Grades: 10,11,12 1 credit

Description: This hybrid course introduces students to the fundamentals of construction technology using the NCCER curriculum. Students will develop essential skills in safety, blueprint reading, tool usage, carpentry, electrical, plumbing, and other core trades. Through practical training and industry-recognized certifications, students will gain a strong foundation for careers in construction, engineering, or skilled trades.

Welding I (Hybrid) #17236

Grades: 10,11,12 1 credit

Description: This hybrid course introduces students to the fundamentals of welding, including safety procedures, blueprint reading, and various welding techniques such as SMAW, GMAW, and GTAW. Students will gain practical experience working with metal fabrication, cutting, and welding processes, preparing them for industry certifications and careers in manufacturing, construction, and skilled trades. Emphasizing safety and

precision, this course provides a solid foundation for future welders.

Hybrid and online courses are subject to being offered if enrollment minimums are achieved. Communication on course offerings will be communicated prior to June 1st.