2026-2027
Career Academy & Technical Center
9th Grade Registration Guide

1221 College Drive

806 N Washington St

1200 College Drive

5402 Noble Drive

QUICK GUIDE

Title of Course	Freshman	Soph.	Jr.	Sr.
Advanced Circuits (formerly AC Electronics) *@	X	X	X	X
Applied Ag Mechanics (formerly Applied Mechanics)	X	X	X	X
Building Systems	X	X	X	X
Building Systems II	X	X	X	X
Career Academy Tech Ed (formerly Foundations of Technology)	X	X	X	X
Computer Hardware/I.T. Essentials	X	X	X	X
Intro to Agriculture	X	X	X	X
Intro to Computers/Intro to I.T.	X	X	X	X
Intro to Electricity (formerly DC Electronics) @	X	X	X	X
Medical Careers	X	X	X	X
Robotics	X	X	X	X
Small Animal Care	X	X	X	X

* = Course has a prerequisite (check course description)
@ = Articulation class

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Free BPS bussing is provided for students to and from all three high schools and all Career Academy locations

North Dakota State Scholarship Information

Coordinated Plans of Study and North Dakota State Scholarship Opportunities

Coordinated Plans of Study exist for eight career and technical education program areas through Bismarck Public Schools: Agriculture, Business Education, Family and Consumer Science, Health Sciences, Information Technology, Marketing Education,
Technology Education, and Trade, Industry, and Technical Education **(Coordinated Plans of Study and the specific pathways preface each program area in this registration guide).** The North Dakota Scholarship aims to align scholarship requirements to the Choice Ready initiative. One thing to keep in mind is that the requirements will align to Choice Ready. The North Dakota Scholarship is worth $6,000 and can be used at approved colleges, universities, professional schools, and registered apprenticeship programs in North Dakota.

Specific eligibility requirements for the scholarship can be found at:
 https://www.nd.gov/dpi/familiescommunity/students/north-dakota-scholarship

**Coordinated Plans of Study to choose from to complete the two credit plan of study scholarship requirement preface each program area in this registration guide.

Agriculture Career Cluster

Coordinated Plans of Study for North Dakota Career and Technical Education Scholarship

AGRICULTURE EDUCATION

For the most current information regarding Coordinated Plans, go to cte.nd.gov/coordinated-plans-study

Agriculture, Food & Natural Resources Career Cluster

Power, Structural & Technical Systems

Course Code	Description	No. of Credits
01011	Introduction to Agriculture	1
01021	Agri Science	1
01043	Applied Ag Mechanics-Sem. 1 (formerly Applied Mechanics)	1
01044	Applied Ag Mechanics-Sem. 2 (formerly Applied Mechanics)	1
01066	Small Animal Care	1
01067	Veterinary Science	1
01995	Supervised Agricultural Experience (SAE)	1/2 – 2
Must complete at least 2 credits		

APPLIED AG MECHANICS (formerly Applied Mechanics) **BPS Career Academy/Silver Ranch**
Grade Placement: 9, 10, 11, 12……..……..2 credits (Block Class)………….Full Year
Lab Fee: $25
Leather boots, welding gloves, and safety glasses are required. Coveralls or old set of clothes strongly suggested. This program includes: tool identification, the study of small engine repair, welding repair using oxy-acetylene, MIG and arc welding, and building of small metal projects. Further studies include: agriculture carpentry, building of small & medium wood projects & buildings, surveying, construction techniques and materials, plumbing, electricity, and utilities. The use of hand and power tools for projects is also included in the mechanics program. Leadership through FFA is an integral part of this course.

INTRODUCTION TO AGRICULTURE **BPS Career Academy/Silver Ranch**
Grade Placement: 9, 10, 11, 12…..…………1 credit (Block Class)………….……………Semester 1 or 2
Lab Fee: $15
Introduction to Agriculture is a foundational course designed to explore the diverse and essential world of agriculture and its role in sustaining society. Students will gain hands-on experience and core knowledge across major agricultural disciplines, learning how food, fiber, and natural resources are produced, processed, and managed. Through engaging classroom instruction, laboratory activities, and real-world applications, students will develop an understanding of agricultural systems, career pathways, and stewardship of land and animals. Major units of study include Animal Science, Agriculture Food & Material Processing, Soil Science, Plant Science, and Floriculture.

SMALL ANIMAL CARE **BPS Silver Ranch**
Grade Placement: 9, 10, 11, 12…..…………1 credit (Block Class)………….………..Semester 1 or 2
This introductory course will start to explore aspects of proper small animal care by introducing students to a wide variety of skills and knowledge used in the world of companion animals. Students will learn basic bodily systems of cats, dogs, rabbits, birds, and fish. Students can expect to learn about proper housing, animal behavior and safety, veterinary skills and diagnosing illnesses, and explore careers working with animals. Students enrolled in this course will be expanding on skills learned in the classroom by applying these skills in a lab setting. Students interested in veterinary careers or jobs working with animals, this is the class for you!

Manufacturing Cluster

Coordinated Plans of Study for North Dakota Career and Technical Education Scholarship

TRADE, INDUSTRY & TECHNICAL EDUCATION

For the most current information regarding Coordinated Plans go to cte.nd.gov/coordinated-plans-study

Manufacturing Career Cluster

Production			Manufacturing Production Process Development		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
17236	Welding I	1 or 2	17150	Intro to Electricity (formerly DC Electronics)	1
17237	Welding II	1 or 2	17150	Advanced Circuits (formerly AC Electronics)	1
			17151	Analog Electronics	2
			17152	Digital Electronics	2
17950	Trade & Industry Capstone	1 or 2	17950	Trade & Industry Capstone	1 or 2
Must complete at least 2 credits			**Must complete at least 2 credits**		

Intro to Electricity (formerly DC Electronics)   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12………………1 credit (Block Class)............................Semester 1
Step into the world of cutting-edge technology! This hands-on course is your gateway to becoming a tech innovator. You'll build and test real electronic circuits in a cool lab environment, learning how electrical engineers shape the world. By solving real-world problems and analyzing schematics, you'll master concepts like current, voltage, and resistance. Plus, earn college credits as you explore the fascinating world of DC circuit analysis. Want to start building the future? This is your first step! But that's just the beginning! To keep advancing, it's highly recommended to take **Advanced Circuits** the next semester, as it builds on what you learn in **Intro to Electricity**, preparing you for more complex circuits and a solid foundation in future tech.

Advanced Circuits (formerly AC Electronics)   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12…………….1 credit (Block Class)................................Semester 2
Prerequisite: Intro to Electricity Intro to Electricity (formerly DC Electronics)
Take your electronics skills to the next level! In this second-semester course, you'll dive deeper into advanced topics like resonance, filters, and even complex circuits. With a mix of lab work and theory, you'll get to experiment with real-life electronics, learning how to troubleshoot and refine circuits like a pro. Plus, you can earn even more college credits while preparing for careers in tech, engineering, or electronics. Ready to level up and make your mark in the world of electronics? This course is for you!

Free BPS bussing is provided for students to and from all Career Academy locations and BHS, CHS, and LHS

Information Technology Cluster

Information Technology Career Cluster

Network Systems			Information Support & Services			Programming & Software Development		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
27101	Intro to Computers/Intro to I.T.	1	27101	Intro to Computers/Intro to I.T.	1	27101	Intro to Computers/Intro to I.T.	1
27219	Computer Hardware/I.T. Essentials	1	27219	Computer Hardware/I.T. Essentials	1	27510	AP Computer Science Principles	1
27280	Cybersecurity	1	27280	Cybersecurity	1	27520	AP Computer Science A	1
						27122	Computer Programming I	½
						27280	Cybersecurity	1
Must complete at least 2 credits			**Must complete at least 2 credits**			**Must complete at least 2 credits**		

INTRO to COMPUTERS/INTRO TO I.T.   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12…….………..….1 credit (Block Class)……..…...….….. Semester 1 or 2
This exploratory level course provides an exposure to careers and issues in Information Technology. Units prepare students for the industry recognized "Internet and Computing Core Certification" (IC3). This globally recognized certification provides students with the foundation of knowledge needed to excel in fields that involve computers and the internet. The IC3 Global Standard 3 reflects the most relevant skills for school and business today including: Computing Fundamentals, Key Applications, and Living Online. Students will also have introductory units on Cybersecurity and the Internet of Things (IoT).

COMPUTER HARDWARE/I.T. ESSENTIALS   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12……………..….1 credit (Block Class)…..………….…...Semester 1 or 2
Recommended: Intro to Computers
This course introduces students to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course helps the students prepare for CompTIA A+ certification.

Science, Technology, Engineering, and Math Cluster (STEM)

Coordinated Plans of Study for North Dakota Career and Technical Education Scholarship

TECHNOLOGY & ENGINEERING EDUCATION

For the most current information regarding Coordinated Plans, go to cte.nd.gov/coordinated-plans-study

Science, Technology, Engineering & Mathematics Career Cluster			Manufacturing Career Cluster		
Engineering & Technology			**Manufacturing Production Process Development**		
Course Code	Description	No. of Credits	Course Code	Description	No. of Credits
10094	Career Academy Tech Ed (formerly Foundations of Technology)	1	10111	Building Systems I	1
10410	Creative Engineering I	1	10111	Building Systems II	I
10338	Creative Engineering II	1	10259	Architectural Design	1
10411	Robotics Engineering	1	10260	Tech Design/3D Modeling	1
			10331	Mechatronics (formerly Energy & Power Production)	1
			10411	Robotics Engineering	1
Must complete at least 2 credits			**Must complete at least 2 credits**		

BUILDING SYSTEMS I   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12……………..1 credit (Block Class)   **Semester 1 or 2**
Lab Fee: $25
If you enjoy woodworking, construction, home repair, or working with your hands, this class is for you! Students will learn the safe and appropriate use of tools and machines commonly used in the construction and woodworking industries while completing a variety of hands-on projects in the tech and engineering shop. Projects may include concrete work, laminate countertops, wooden games, laser engraving, charcuterie boards, wall framing and sheetrock installation, taping, mudding, and patching. In partnership with the Dakota Woodturners, students will also have the opportunity to use a wood lathe to create projects such as pens, screwdrivers, duck/deer/goose calls, vases, and other wood turned items. This course is a great introduction for students interested in exploring the construction field or for anyone wanting to develop basic home building and repair skills through hands-on experience.

BUILDING SYSTEMS II   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12…….....1 credit (Block Class)..........................Semester 1 or 2
Prerequisite: *Building Systems I*
Lab Fee: $25
If you enjoyed Building Systems I, this class should be added to the list. Building II will add to your knowledge in the construction field by introducing careers and developing skills in floor coverings and installation, tile setting, plumbing countertop construction and repair, roofing, advanced woodturning, underground sprinkler systems, and security systems (locks and cameras). In addition, students will create an electrical circuit by running electrical wiring to the various lighting and outlets within the structure. We will cover tools, materials and vocabulary in all these trade areas. Small project at the end of the semester.

CAREER ACADEMY TECH ED   (formerly Foundations of Technology**)**   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12…..……….1 credit (Block Class) ………..…..…… Semester 1 or 2
Lab Fee: $25
Do you like building things? Do you like working with your hands? Learn through group and individual activities that engage in STEM activities by creating ideas, developing innovations, and engineering practical solutions. Some hands-on activities that are possible: tool safety, CADD designed CO_2 car dragsters, manufacturing in the wood shop with the mini-lathe & building a small wood project, laser engraver, vinyl cutter, t-shirt design, bridge design, building robots.

ROBOTICS   **BPS Career Academy**
Grade Placement: 9, 10, 11, 12……..……...1 credit (Block Class) ……..……..…… Semester 1 or 2
Robotics focuses heavily on the building process, mechanical parts, and physics of a functioning robot. Students will spend the majority of their time in class building and being hands-on. Some of the robot builds include the square bot, claw bot, protobot, gear plate, stair climber, crane, manipulator, and ping pong ball launcher. The robotic systems used in class are from VEX Robotics.

Health Sciences Cluster

Coordinated Plans of Study for North Dakota Career and Technical Education Scholarship
HEALTH SCIENCES EDUCATION
For the most current information regarding Coordinated Plans, go to cte.nd.gov/coordinated-plans-study

Health Science Career Cluster					
Diagnostic Services			*Therapeutic Services*		
Course Code	*Description*	*No. of Credits*	*Course Code*	*Description*	*No. of Credits*
07033	*Medical Careers*	*1*	*07032*	*Certified Nursing Assistant*	*1*
07034	*Prevention & Care of Athletic Injuries*	*1*	*07033*	*Medical Careers*	*1*
07035	*Advanced Medical Careers*	*1*	*07035*	*Advanced Medical Careers*	*1*
07036	*Medical Terminology*	*½*	*07036*	*Medical Terminology*	*½*
			07038	*Intro to Nursing*	*1*
17950	*Trade & Industry Capstone*	*1 or 2*	*17950*	*Trade & Industry Capstone*	*1 or 2*
Must complete at least 2 credits			*Must complete at least 2 credits*		

MEDICAL CAREERS   **BHS, CHS, LHS**
Grade Placement: 9, 10, 11, 12……………..………….1 credit   Full Year
This year-long course provides students with information relating to the educational and professional requirements for the various medical careers. Students will study infection control, fundamentals of diseases, basic anatomy and physiology, and medical terminology. Students will become certified in the Healthcare Provider level of CPR/AED for the Professional Rescuer and American HeartSaver First Aid. **Dual credit from Bismarck State College is available (HPER 210)** Students need to be sophomores in order to receive dual credit.