



# MARKETPLACE FOR KIDS EDUCATION DAY

## Monday, May 19, 2025

### 9:00 A.M. – 2:00 P.M.

## NORTH DAKOTA STATE COLLEGE OF SCIENCE

Welcome!

On-Line Registration opens **Friday, March 21, 2025**. All registrations are “first come first served.” The registration must be complete before it can be processed.

Registration closes **Friday, May 2, 2025**. You will be notified when your registration has been received and processed.

### Education Day General Schedule:

*(A personalized schedule for each student will be printed on their name badge)*

**\*Note that these times are subject to change**

8:45 am – 9:10 am	Pre-Opening Music	11:55 am – 12:20 pm	(Teal) Non-Project Students Lunch
9:10 am – 9:30 am	Opening Rally		(Maroon) Non-Project Students View Projects
9:45 am – 10:10 am	All Students Attend Classes	12:20 pm – 12:50 pm	(Teal) Non-Project Students View Projects
10:20 am – 10:45 am	All Students Attend Classes		(Maroon) Non-Project Students Lunch
10:55 am – 11:20 am	All Students Attend Classes	1:00 pm – 1:25 pm	All Students Attend Classes
11:30 am – 11:55 am	Project Students Eat Lunch	1:30 pm – 1:40 pm	Pre-Closing Rally Entertainment
11:30 am – 11:55 am	Non-Project Students Attend Classes Project Students Eat Lunch	1:40 pm – 2:00 pm	Closing Rally
11:55 am – 12:50 pm	Project Students Present Projects at Hall of Great Ideas Showcase		

## Class List and Description

### A. Pharmacy Technician Exploration

Explore and learn about various pharmacy technician tasks and duties. Limit 24 Students.

### B. Breaking Through Traditional Roles – a NEW Challenge!

Feeding a growing world is one of the most vital future needs for all of us! In this session, students will have fun "breaking out" of lock boxes (similar to an escape room) while learning about many career paths that are available to them and how these jobs relate to agriculture and feeding the world. Come and be challenged! Limit 24 Students.

### C. Career Paths in Aviation

Steam as a tool to foster entrepreneurship, problem solving, using critical thinking and career paths to Aviation.

### D. DIY Breadboard Circuits

Come learn and explore circuit builds and the basics of electricity flow through circuits. In this session, students will become familiar with circuitry components like photoresistors, push buttons, batteries, LED's, capacitors, and breadboards. Each build increases in complexity, and all components are reusable so that builds may be disassembled and recreated! Two 50-minute sessions and one 25-minute class. Limit 16 Students.

### E. Electrical Motors

For this class we will use two 20-minute sessions to explain how electric motors work and each student will build a simple electric motor that they can take home with them. Each student will build a motor kit, and then run the motor using a battery to learn how electricity make a motor turn. Grades 5 and above. Limit 10 Students.

### Electrical Circuits

A 20 Minute session where we will explain how an electric circuit works to turn on a light. Students will build a simple circuit they can take home. The project will have a battery, a switch, and a lamp they will connect with wire and be able to turn the light on and off. Grades 5 and above. Limit 10 Students.

### F. Overview of Being a Fire Fighter

Discussion, question, and answers. Chance to spray water.

### G. Experiments with Electricity

We will be using snap circuits and teaching kids about conductive materials and insulators. Mechanical energy and electrical energy. Limit 24 Students

### H. Are you curious about what pharmacists really do?

Come explore the world of pharmacy in this fun and interactive workshop! You'll learn where pharmacists work—like hospitals, clinics, and research labs—and discover which pharmacy career might be perfect for you. Get tips on how to prepare for a future in pharmacy, and even try out some hands-on activities, like making your own customized lotion to take home! Limit 35 Students.

### I. Power UP! Exploring Energy and Future Careers

Explore various forms of energy and methods used in ND to generate electricity and other power sources. Includes hands-on activities to experience firsthand how energy is transformed and used. Limit 24 Students.

### J. Discover Japan in North Dakota

This class will provide students with an opportunity to experience unique Japanese culture. Limit 16 Students.

### **K. Percussion Explosion**

Come and learn how everyday items can be turned into your own instrument! This session, influenced by "Stomp on Broadway", will allow participants to rock out to hip hop and country music! Limit 16 Students.

### **L. Lessons About Your Money**

The more you know about how to make money, how to save money, and how to spend money, the less likely it is that you will have problems as an adult. Do you know people who never seem to have enough money? If you don't want to live that way, listen up. We have some good information to share with you today.

### **M. OPEN**

### **N. Career View**

This class will allow students to view careers in a firsthand view. Using career experiences, students will get to see what their selected career does on a daily basis. Limit 16 Students.

### **O. Operation LifeSaver/Railroad Safety**

Railroad Safety, trespass prevention, and how to report emergencies that occur while on or near railroad property.

### **P. Land Mapping and Surveying**

A look inside the profession of Land Surveying and how we, as Professional Land Surveyors, help build the world around us by using technology, such as Robotic Instruments, GPS, Laser Scanners, and Drones. Limit 32 Students.

### **Q. Keeping Us Safe**

Handcuffing, fingerprinting and online safety.

### **R. Diesel Technology Intro to Operation**

Participants will have an opportunity to drive a tractor and/or run an excavator.

### **S. OPEN**

### **T. Who Wants to be a Nurse?**

We will have a variety of activities for students to participate in reflex checks, ear checks, hearing tests, lung sounds, oxygen and breathing. Limit 16 Students.

### **U. Worldwide Animal Conservation**

Explore the world of conservation with Chahinkapa Zoo professionals. Meet live animal guests!

### **V. A Wildcat Scavenger Hunt!**

How well do you know the NDSCS Campus? Test your speed and knowledge.

### **W. Introduction to Robotics**

This hands-on experience will introduce the student to the world of robotics and how they are used in various industries. Students will also have the opportunity to operate an industrial robot to pick up objects in their workspace. Limit 16 Students.

### **X. Explore Your Senses**

Our senses...sight, smell, taste, touch, and hearing connect our minds with the world around us. There are many situations throughout the day to provide opportunities for stimulation. You'll engage in fun, structured, hands-on activities that stimulate both sensory and motor skill development. Come and excite your senses! Limit 20 Students.

### **Y. Do you have "Treasure" hiding in your trash?**

Let's sort through some "trash" and see if you can pull out all of the recyclable materials! This is a fun and engaging

session where students will become informed on how they can help the environment by recycling. Participants will learn about recycling, composting, and ways to reuse items. (24)

### **Z. Does Money Grow on Trees?**

Wood, paper, heating, buildings, musical instruments, crafts, toys, nuts, fruits, and even mushrooms! "Wood" you believe it all comes from a tree? Many jobs rely on forestry, even in North Dakota, and selling "specialty forest products" could be an opportunity to start your own business to earn extra money.

### **AA. Farm Crops and Safety**

Learn how different crops are used on a daily basis. Learn farm safety facts.

### **BB. OPEN**

### **CC. Who wants to be a Dental Assistant or Dental Hygienist**

This class will include a hands-on demo of several dental office procedures that dental assistants or dental hygienists do. What does an intra-oral camera look like and how is it used? What is infection control and how important is hand washing? How can I keep my teeth strong and healthy? How do you polish a patient's teeth? Limit 32 Students.

### **DD. Law Enforcement Basics**

Two Uniformed Sheriff's Deputies will display Law Enforcement Equipment & Tools including: Marked Police Vehicles with Emergency Lights, Sirens, Police Radio, Transport Cages, Rescue Gear and a variety of other Law Enforcement Gear. Presenters will have a Drone Demonstration, talk about Law Enforcement Duties, K-9 Nemo and answer general questions about Law Enforcement. Limit 32 Students.

### **EE. All About Water Rescue**

Students will look at anatomy models, human skulls, a dissected sheep brain, and dissected cow eye. Limit 40 Students.

### **FF. Welcome to the World of Welding**

Welding in a virtual world. Limit 16 Students.