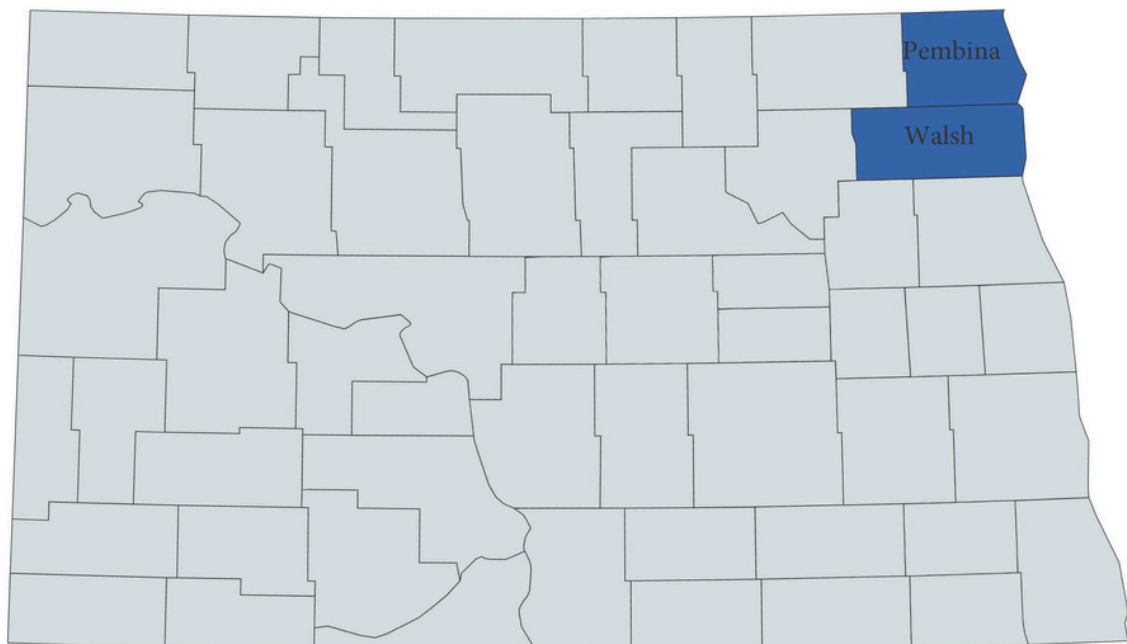




# **WALSH/PEMBINA TECHNOLOGY COOPERATIVE**

## **EMERGING TECHNOLOGY CATALOG 2025-2026**



NORTH VALLEY CAREER-TECH CENTER  
1540 SCHOOL ROAD, GRAFTON, ND 58237  
701-352-3705

# EMERGING TECHNOLOGY CATALOG 2025-2026

## VIRTUAL



### ANATOMAGE TABLE

FULLY SEGMENTED REAL HUMAN 3D ANATOMY SYSTEM, EXPLORATION AND LEARNING OF HUMAN ANATOMY, GROSS ANATOMY CASES, REGIONAL ANATOMY CASES, PATHOLOGICAL EXAMPLES, AS WELL AS ANIMAL CASES, ALSO ACTIVITIES AND CURRICULUM.

### ZSPACE

ZSPACE IS A VIRTUAL REALITY LEARNING EXPERIENCE, USING THREE SENSORY CHARACTERISTICS (PERCEPTION OF DEPTH, ABILITY TO LOOK AROUND, KINESTHETIC REALISM) TO CREATE NATURAL PRODUCTS.



### META QUEST 2

A VIRTUAL REALITY HEADSET, MOST ADVANCED VR SYSTEM, PROVIDING NEW OPPORTUNITIES. EXPERIENCE VIRTUAL JOB SHADOWS.

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## CNC



### CARVEWRIGHT ROUTER

ADVANCED AND USABLE 3D CARVING SYSTEM, OFFERS OPPORTUNITY TO INTRODUCE CNC INTO THE CLASSROOM. THE MACHINE AND SOFTWARE MERGES TECHNOLOGY WITH CRAFT INCORPORATING CAD AND 3D DESIGN.

\*SOFTWARE-DESIGN 4

### ROUTER

USING MASTERCAM SOFTWARE TO CONVERT IMAGES TO BE ROUTERED IN WOOD, HANDS-ON CURRICULUM TEACHING STUDENTS THE BASICS OF CNC MACHINING.

\*SOFTWARE-MASTERCAM



### PLASMA

CONSISTING OF PRODUCTION COMPONENTS BUILT INTO SMALL MACHINE FOOTPRINT, ALLOWING REAL WORLD MANUFACTURING TOOLS TO TEACH CNC OPERATIONS, GRASPING CAD AND CAM DESIGN.

\*SOFTWARE-MASTERCAM



### EMBROIDERY

OFFERS MANY FEATURES SUCH AS BUILT-IN DESIGNS, ON-SCREEN EDITING, THREAD BRAND SELECTIONS.



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## ALTERNATIVE ENERGY



### SOLAR ENERGY

COLLECTIONS OF PHOTOVOLTAIC CELLS, CIRCUIT MODULES, AND INSTRUMENTATION WITH AN EXPERIMENTAL PLATFORM SUITABLE FOR CLASSROOM DEMONSTRATIONS.



### HYDROGEN ENERGY

PERFORM CLASS DEMONSTRATIONS AND EXPERIMENTS USING AN ELECTROLYSER AND FUEL CELL.



### WIND ENERGY

DEMONSTRATE ON A TABLETOP SCALE THE CONVERSION OF ENERGY FROM WIND TO ELECTRICITY.

## VERNIER SENSORS

VERNIER SENSORS FOR USE IN CHEMISTRY, BIOLOGY, EARTH SCIENCE, AND PHYSICS.



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## DESIGN



### 3D PRINTER

PRINT DURABLE PARTS, ENCOURAGING STUDENTS TO BRING ENGINEERING, DESIGN, AND MANUFACTURING IDEAS TO LIFE, ALIGNING WITH INDUSTRY-STANDARD MANUFACTURING PRACTICES.

**LASER ENGRAVER**  
CREATE DESIGNS FOR CUTTING AND ENGRAVING,  
LEARNING HOW THE LASER CUTS THE OBJECT.

\*SOFTWARE-CORELDRAW



### TURF TANK

WITH GPS-GUIDED ACCURACY AND USER FRIENDLY SOFTWARE, ENCOURAGES STUDENTS TO ENGAGE WITH ROBOTICS AND GPS TECHNOLOGY.

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## VERNIER SENSORS

GARMIN GPS	CO2-02 TEE
LAB QUEST	COLORIMETER
VERNIER NXT ADAPTER	CONDUCTIVITY PROBE
PH SENSOR	CURRENT PROBE
SS TEMP PROBE	DIFF. VOLTAGE PROBE
PROSCOPE KIT	ADAPTER
HIGH RESOLUTION PROSCOPE	DISSOLVED OXYGEN SENSOR
PROSCOPE STANDS	DUAL RANGE FORCE SENSOR
STIR STATIONS	FLOW RATE SENSOR
DYMANIC SYSTEM	LIGHT SENSOR
PHYSIOLOGY LABPRO	MICROPHONE
HAND GRIP HEART RATE MONITOR	RELATIVE HUMIDITY SENSOR
EKG SENSOR	SOIL MOISTURE SENSOR
LABPRO INTERFACE	SOUND LEVEL METER
SURFACE TEMP SENSOR	UVA SENSOR
BLOOD PRESSURE SENSOR	UVB SENSOR
HAND DYNAMOMETER	TURBIDITY SENSOR
SPIROMETER	EXTRA LONG TEMP PROBE
O2 GAS SENSOR	GAS PRESSURE SENSOR
FORCE PLATE	AMMONIUM ION-SELECTIVE ELECTRODE
LOW-G ACCELEROMETER	CHLORIDE ION-SELECTIVE ELECTRODE
CO2 GAS SENSOR	NITRATE ION-SELECTIVE ELECTRODE

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## VERNIER SENSORS

BAROMETER

BLOOD PRESSURE SENSOR

MAGNETIC FIELD SENSOR

MOTION DETECTOR

GRAPHICAL ANALYSIS 3 SOFTWARE

LOGGER PRO 3 SOFTWARE

CHEMISTRY WITH CBL

EXPLORE PHYSICS/MATH CBL

AGRICULTURAL SCIENCE

HUMAN PHYSIOLOGY

EARTH SCIENCE W/CALCULATOR

PHYSICAL SCIENCE W/CALCULATOR

PHYSICS W/CALCULATOR

CHEMISTRY W/CALCULATOR

BIOLOGY W/CALCULATOR

WATER QUALITY W/CALCULATOR

MIDDLE SCHOOL SCIENCE

BASIC PRO SCOPE HR KIT

MAGNETIC FIELD SENSOR

PRESSURE SENSOR

CBL MOTION DETECTOR

PH SYSTEM

EZ TEMP

HEART RATE MONITOR

EXERCISE HR MONITOR

VERNIER PHOTOGATE

CARTER PICKET FENCE

DIGITAL EXTENSION CABLE

PHOTOGATE BAR TAPE KIT

PHOTOGATE BRACKET

PICKET FENCE

PULLEY BRACKET

PULLEY ATTACHMENT

TRIS FLAT PH SENSOR

2V/400MA SOLAR PANEL

VERNIER LABQUEST 3

LABQUEST CHARGING STATION

VERNIER OPTICAL DO PROBE

PH BUFFER CAPSULES (3X10)

PH STORAGE SOLUTION

SPECTROVIS OPTICAL FIBER

SPECTROVIS PLUS

VERNIER ENERGY SENSOR

D.O. FILLING SOLUTION