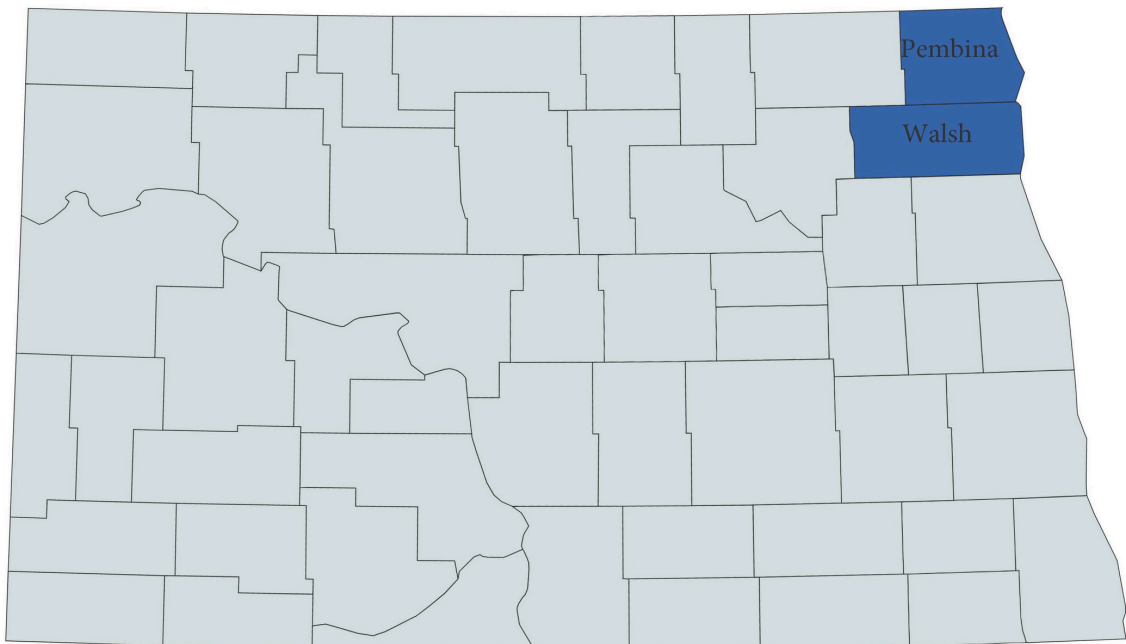




North Valley
Career and Technology Center

WALSH/PEMBINA TECHNOLOGY COOPERATIVE

EMERGING TECHNOLOGY CATALOG 2024-2025



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

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

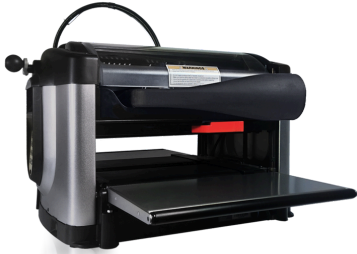
A VIRTUAL REALITY HEADSET, MOST ADVANCED VR SYSTEM, PROVIDING NEW OPPORTUNITES. EXPERIENCE VIRTUAL JOB SHADOWS.

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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



BN-20 VINYL CUTTER

VINYL CUTTER THAT OFFERS MEDIA CUTTING AND PRINTING THAT CAN BE USED FURTHER IN VARIOUS WAYS FOR DESIGNS OF T-SHIRT GRAPHICS, POSTER DESIGNS, AND DECALS.

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

*SOFTWARE-CORELDRAW



CONTACT

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VERNIER SENSORS

GARMIN GPS
LAB QUEST
VERNIER NXT ADAPTER
PH SENSOR
SS TEMP PROBE
PROSCOPE KIT
HIGH RESOLUTION PROSCOPE
PROSCOPE STANDS
STIR STATIONS
DYMANIC SYSTEM
PHYSIOLOGY LABPRO
HAND GRIP HEART RATE MONITOR
EKG SENSOR
LABPRO INTERFACE
SURFACE TEMP SENSOR
BLOOD PRESSURE SENSOR
HAND DYNAMOMETER
SPIROMETER
O2 GAS SENSOR
FORCE PLATE
LOW-G ACCELEROMETER
CO2 GAS SENSOR

CO2-02 TEE
COLORIMETER
CONDUCTIVITY PROBE
CURRENT PROBE
DIFF. VOLTAGE PROBE
ADAPTER
DISSOLVED OXYGEN SENSOR
DUAL RANGE FORCE SENSOR
FLOW RATE SENSOR
LIGHT SENSOR
MICROPHONE
RELATIVE HUMIDITY SENSOR
SOIL MOISTURE SENSOR
SOUND LEVEL METER
UVA SENSOR
UVB SENSOR
TURBIDITY SENSOR
EXTRA LONG TEMP PROBE
GAS PRESSURE SENSOR
AMMONIUM ION-SELECTIVE ELECTRODE
CHLORIDE ION-SELECTIVE ELECTRODE
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