

Draft Copy -- Planned Open House Demonstrations & Displays – Draft Copy

Updated As of 10/6/2023, More Updates to Follow

Program	Demo/Display	Program	Demo/Display
Environmental Safety (ESM)	<ul style="list-style-type: none"> ● Fall Protection and Harness Rigging ● HAZMAT Suit ● Specialized Safety Devices 	Interior Design	<ul style="list-style-type: none"> ● Interior Design Student Projects
Wood Product Manufacturing (WPM)	<ul style="list-style-type: none"> ● 5-Axis CNC Router (Gorilla) ● CNC Panel Saw ● Holzher Edgebander ● Innovative CADD Lab ● Student Projects Display ● Veneering and Display ● Moulder Demo (every 30 min.) ● Cabinet Construction – Case Clamp & Vertical Machinery ● Wood ID Display 	Automotive	<ul style="list-style-type: none"> ● Drivability Dynamometer ● Baja Vehicle Display ● SimSpray Simulator ● Drag Race “Christmas Tree” Competition ● ADAS Equipment Demo ● Electric Vehicle (EV) Lab
Graphic Communications	<ul style="list-style-type: none"> ● Print Media ● Automated Screen Printing ● Photography/Light Painting ● 3-D Software -Animation ● Laptop Sticker Design ● Motion Graphics ● Addy Awards/Senior Projects ● Studio Headshots ● Packaging Prototypes ● 3D Animation w/Blender ● Mobile Video Demonstration 	Electronics Engineering Tech (EET)	<ul style="list-style-type: none"> ● Artificial Intelligence (AI) Deep Learning Robot; ● Substation Model ● Black & Veatch Scholarships ● Solar RC Car ● Programmable Gate Array (FPGA) Video Game ● Digital Signal Processing Audio Effects ● Senior Project Wall Displays
Mechanical Engineering Tech (MET)	<ul style="list-style-type: none"> ● 3D Printing Lab -- Additive Manufacturing ● Mechanics of Materials Strength of Materials ● Demos: Fluid Mechanics ● Moon Rover Competition 	Electrical Technology	<ul style="list-style-type: none"> ● Two Year Electrical Residential Wiring Lab ● Electrical Machinery Lab ● Interactive Electrical Activities ● Specialty Electrical Trainers
Construction Management/ Construction Engineering Technology	<ul style="list-style-type: none"> ● iPlan Table, 3-D Printing Structures: "Sand Pit" (interactive topography); ● Surveying Equipment; ● Building Information Modeling (BIM); ● Virtual Reality/ Augmented Reality ● CAT Simulator Activities: Dozer, Loader, and Excavator; ● Display: Crane Simulators ● Demo: Concrete/Testing ● Activity: Bobcat Mini-Excavator 	Manufacturing Engineering Technology	<ul style="list-style-type: none"> ● High Pressure Waterjet Cutting - Foam PSU Cutouts; ● Sand Molding Demo – “<i>The Magic of Green Sand Using the Mini Foundry.</i>” ● Plasma-Cutting Metal
		Technology & Engineering Education	<ul style="list-style-type: none"> ● Tour: Center of Applied STEM Education (CASE) ● CNC Router & 3-D Printing ● Laser Engraving & Robotics; KidSpark Education Systems ● Mechanical Function Display; ● Innovation Collaboration Pod; & Student Projects
		Plastics Engineering Tech (PET)	<ul style="list-style-type: none"> ● Demo: Injection Molding "Frisbees" and Other Items ● Demo: Blown Film Extrusion "Plastic Bags"
		SWE	<ul style="list-style-type: none"> ● Society of Women Engineers Display