



2019 IGNITE Your Future Career Cluster Activities

Activities organized throughout the building by career fields as much as possible. Numbers behind descriptions are room numbers.



AGRICULTURE, FOOD & NATURAL RESOURCES

- Ultrasound an animal to identify its reproductive tract - 360
- The Vet is in! Give a small animal physical & ID skulls - 360
- Combine corn/beans in a high-tech combine simulator - outside near 427
- High-tech farming: farm operation hydraulic simulator - outside near 427
- Fish Scales: catch, tag and ID a fish to determine its age - 427
- Where's the BEEF? Explore beef cuts, vaccines, byproducts - 429
- Got MILK? Learn secrets to dairy industry quality control - 440
- High-tech dairy tracking: health, breeding & feeding - 440

ARTS, AUDIO/VIDEO TECH & COMMUNICATIONS

- Fly a drone for photos/videos with this cool simulator - 460
- Ignite your creativity in the CreateSpace - it's a cool idea incubator! Try 3D pen, product photos and more! - 455
- Print-tastic: transforming ideas into art - 164
- Splish Splash I was Taking a Photo! Glass-crashing, high-speed photography, cell phone vs a high-end camera - 151

INFORMATION TECHNOLOGY

- Computer Sabotage: Use detective skills to discover and fix PC hardware issues; learn to tweak performance - 327
- Avoid a Hack: Spot and patch cybersecurity holes - 328
- Computer Gurus: Program by coding game mods - 251
- Website Creators: You use them daily - make your own - 245

BUSINESS, MANAGEMENT & ADMINISTRATION

- Keyboard Challenge: so you think you can type fast? - 470
- Identify your personality strengths and explore fitting business careers - 470
- The Hiring Challenge: From Help Wanted to in-the-door resumes - 470
- The art of choosing who to interview - 470
- Feel the hiring power by interviewing mock candidates and spin the wheel of success - 470

MARKETING & FINANCE

- Name that Brand! Secrets behind creative marketing - 475
- Good Credit - what is it good for? - 465
- I Spy Fraud! - 465

ENGINEERING, MANUFACTURING & TECHNOLOGY

ARCHITECTURE & CONSTRUCTION

- Electrify Your Future: switches, connectors & Ding Dongs - 267
- Build a small truss using a jig, hammer & tape measure - 261

- Virtual Reality Roofing: Day in the Life of a commercial roofer - can you handle the heights? - 200 Commons
- Construction simulator: try moving dirt & loading trucks with bulldozers, wheel loaders, excavators - outside, near 401
- Big Toys! Explore life-size heavy equipment used for commercial and residential development - outside, near 401
- Build a gadget holder with wood for phone or tablet - 321
- Turn blueprint into house wall - will your wall stand? See what goes into safe, secure designs - 270

MANUFACTURING

- Draft with SOLIDWORKS software to create a key chain model design; check out 3D print plastic components - 340
- High-tech Computer Numerical Control (CNC): assist machine to create and print souvenir Ignite logo key chain - 380
- Measure materials, apply instructions and assemble designed/machined/printed IGNITE key chain - 371
- Welders master the heat! Learn safe practices and weld together your own Minnesota souvenir - 353

SCIENCES, TECH, ENGINEERING, & MATH

- Electroplate copper: journey into electro chemistry - 370
- Play the radiography game - 315
- Feel the magnetic pull - 315
- Save lives with ultrasound and tomography - 315
- Robots are coming! Manipulate a robot - 259
- Operate a motor tachometer and pneumatic circuit - 259
- Race car simulator: feel the speed - 259
- Guardians of the Galaxy 3D Groot key chain - 259

TRANSPORTATION, DISTRIBUTION & LOGISTICS

- Splat! Virtual reality auto body painting simulator - shed outside 475
- Fast Hands Tools Challenge - shed outside 475
- Vehicle computers speak volumes, just listen! - outside 475
- Train Coming! Try hand communications, connect train air hoses and feel the power! - 355
- Radio communication is critical for trains. Try it! - 345
- Keep on Truckin! Schedule a truck route - 200 Commons
- Strap a trailer load, explore semi - 200, outside back Commons
- Snowplows up close, the safe way - outside near 355

HEALTH SCIENCE

- Health Information scavenger hunt! - 145
- Virtual Reality Dementia: experience sights, sounds - 200 Commons

- Dizzy Dose: experience vertigo & its treatment - 233
- Footloose: Improve balance, footwork with drills - 233
- Therapy: Measure joint mobility and hand strength - 233
- Adaptive dressing techniques - 233
- Glo Germs - can you pass the hand washing test? - 237
- Medical assistants: room a patient, draw blood on a fake arm and do a basic lab test - 235
- Be the First to Know: blood type and illness testing - see how microscopic lab results tell doctors how to proceed - 235
- Ambulance! Emergency medical call from start to finish - 200 Commons, outside
- Assemble a brain: can YOUR brain handle the challenge? - 380
- Dissect a sheep brain with college students - 380
- Test your patellar reflex - 380
- Wellness Sounds: blood pressure tells a story - 235
- Just Breathe: learn to assess lung clarity - 235
- Patient Presents: what puke tells you - 235
- Triage 101: measuring wounds - 235
- TED Socks Challenge - learn the need, the basics, and the high-tech compression option - 145

HUMAN SERVICES

EDUCATION & TRAINING

- Dino Scavenger Hunt with preschoolers - 248
- Create a kindness rock - let's pay it forward - 248
- Story Time - can you make the preschoolers smile? - 248
- Ooey, Goopy Fun - preschoolers learn through fun - 248
- Twister - preschooler style - 248

GOVERNMENT & PUBLIC ADMINISTRATION

- We Want YOU at Uncle Sam's military physical challenge rock climbing wall (weather permitting) - 249, outside
- Save a Soldier: Test your military, mental team skills at a land-mine obstacle - 249, outside

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

- Law & Order Challenge: Prosecutor vs Defense - Is this case scenario a slam dunk? Test your justice judgment - 246
- Protect & Serve! Explore police gear, squad cars & more - 247

HUMAN SERVICES

- Human side of a hearse - death, compassion & funerals - 247
- Looking Good! Try hair, nails & skin tips/tricks to use now, explore cosmetology, nail technology and esthetics - 158

YOU'RE HERE!

Welcome to IGNITE!

We hope you have a great day exploring activities that interest you and trying others that may surprise you. What looks cool? Where are you headed?

- Mark activities you explore
- Note your departure time to catch your bus. _____
- Set a reminder or timer on your phone if it's helpful
- Share photos of your fun at **#IgniteMyFutureMN**
- Go to the Commons: - to locate a chaperone from your school
- Go to the Concourse for: - lost and found, first aid

NEXT STEPS

- Complete your post-event survey at www.ridgewater.edu/igniteyourfuture
- Tell your counselor/chaperones about your day - ask questions to keep exploring careers
- Visit with family/mentors about their careers and ideas for you
- Continue IGNITING Your Future by exploring numerous careers!