

Welcome to

TECH DAY

Schedule of Events

Friday, March 24, 2023

9:00AM - 9:30AM **Check-in**
Library Lobby

9:30AM - 9:45AM **Welcome**
Library Auditorium

10:00AM - 11:00AM **Breakout Sessions 1**
Business and Information Technology
ENG 204
Campus Tour
SSC - Meet in Lobby
Electrical Engineering Sessions
NRRC 313
Mathematical Sciences
SUB - Big Butte/Highlands Room
Mechanical Engineering
NRRC 213
Petroleum Engineering
NRB 122

11:00AM - 12:00PM **Lunch**
SUB - Marcus Daly Dining Hall

Academic Fair
SUB - Copper Lounge

12:00PM - 1:00PM **Breakout Sessions 2**
Campus Tour
SUB - Meet in Courtyard
Computer Science
MG 204
Environmental Engineering
S&E 308
Geological & General Engineering
SSC - Lance Leadership Hall
Nursing Simulation
S&E - Lesar Family Nursing Simulation Center
Occupational Safety & Health
NRRC 217

1:00PM - 2:00PM **Breakout Sessions 3**
Cadaver Dissection Lab
CBB 005
Highlands Campus Tour
Meet at Highlands College. Must have own transportation to 25 Basin Creek Road.
Interdisciplinary Arts & Sciences
SUB - Big Butte/Highlands Room
Metallurgical Engineering
ELC LAB
Mining Engineering
MG 008
Nursing Simulation
S&E - Lesar Family Nursing Simulation Center
Parent Panel
Copper Lounge

2:00PM - 3:00PM **Optional Residence Hall Tour**
SSC - Meet in Lobby

Dig these BREAKOUTS

Business & Information Technology:

Interested in starting your own business or playing a pivotal role in the corporate world? Don't miss this interactive session where you will learn how to create your own app and apply it to business use, while learning more about Tech's **Business and Information Technology** program. *Session 1.*

Cadaver Dissection Lab:

Are you interested in learning more about the anatomy and physiology of the human body? View and interact with human cadavers and participate in a hands-on dissection of various animal organs in our Cadaver Lab interactive session. In addition, students will have the opportunity to learn more about our **Biological Sciences, Chemistry, and Exercise & Health Sciences** programs. *Session 3.*

Computer Science:

Students will see how a classic game could be turned into an app, while learning about the various roles **Computer Scientists, Software Engineers, and Data Scientists** play in developing games. You'll also learn about job opportunities and how computer science tackles and real-world problems. *Session 2.*

Electrical Engineering Sessions:

Join **Electrical Engineering** faculty for two hands-on sessions in one! First, put your skills to the test as you learn binary code and program a wheeled robot. Next, get acquainted with some of the power grid simulation equipment in our Schweitzer Engineering Power Lab. All perfect for students interested in learning more about electrical engineering, robotics, and computer science. *Session 1.*

Environmental & General Engineering:

Learn how **Environmental Engineers** conserve the Earth for future generations! Explore drone-based remote sensing data collection in water resources, engineering & mine waste remediation projects, and innovative water & air treatment technologies. *Session 2.*

Interdisciplinary Arts & Sciences:

Join our **Writing** faculty for an escape room scenario that mixes fun with academic integrity principles. Successfully complete academic-honesty-themed tasks to win a prize! *Session 3.*

Mathematical Sciences:

Join the department of **Mathematical Sciences** for a hands-on session exploring origami - the art of paper folding. You will be guided by faculty and students through a few paper folding exercises based on precise geometrical rules. You will discover how paper folding can be fun, and also has surprising practical applications - such as deployable satellite solar panels. *Session 1.*

Mechanical Engineering:

The **Mechanical Engineering** department calls this session "we make it, you break it." Join them to discover how objects' mechanical properties are tested by breaking them. *Session 1.*

Metallurgical Engineering:

The **Metallurgical & Materials Engineering** department educates students on the processes used in the production of materials used in manufacturing, construction, science, and industry. In this dynamic session, learn about how materials can be manipulated with a casting demonstration, a steel forging competition, and an exciting thermite welding demo. *Session 3.*

Mining Engineering:

Learn how the mining industry provides the quality of life we enjoy and has a BLAST while doing it. Many **Mining Engineers** specialize in ensuring that rock can be safely fragmented and extracted from the ground. We will explore blasting, the most common form of rock fragmentation. Students will also get to see the scale of modern mining (think big toys) and learn about the importance of safety in mining through a virtual reality (VR) experience. *Session 3.*

Nursing Simulation:

Nursing simulation is a bridge between classroom learning and real-life clinical experience. The **Nursing** department will demonstrate use of a computerized mannequin that performs human functions to create a realistic clinical environment and explore a variety of healthcare scenarios. *Sessions 2 & 3.*

Occupational Safety & Health:

Keep the job site safe from hazardous exposure, injury, and illness with our **Occupational Safety and Health (OSH)** program. Harness-up and join our OSH professors in the fall protection simulation lab. Learn how to work from extreme heights and keep job sites safe. OSH is a highly employable health science field with jobs available in numerous industries worldwide. *Session 2.*

Petroleum Engineering:

Join **Petroleum Engineering** faculty for a high-octane demo of various hydrocarbon applications in a high-performance Mazda RX-8 (weather-permitting). Next, take a spin through our state-of-the-art laboratories. *Session 1.*

Thank you for being here!