A collaborative learning laboratory and exhibit space demonstrating innovation for critical academic and research themes.

Innovation
- Carbon neutral net-zero energy design
- Promotes a turnkey, collaborative planning, design, and construction project delivery model
- Heating and cooling utilizes a complex system of heat exchangers to optimize energy efficiency
- Redundant utilities with fuel switching capabilities ensure consumption of the cleanest energy available

Sustainable Features
- Geothermal heating and cooling system
- High-performance building envelope
- Overall building U-factor = 0.083
- Rain screens utilize the stack effect to reduce solar gain
- High-performance glazing optimizes solar control and visible light transmission
- 115 kW onsite photovoltaic solar
- 130 kW combined heat and power system
- Water source variable refrigerant flow systems efficiently target heating and cooling needs throughout the building simultaneously
- LED lighting with occupancy and daylighting controls
- 400 kW offsite photovoltaic solar

Facility Improvements
- Center for Immersive Learning and Engaged Teaching
- Avant-garde teaching and collaboration spaces supported by 24-hour student-centered operational capability
- Capitalizes on the unique community connection and sense of place
- Terraces on each level with views of majestic Pikes Peak
- Restores historical green space academic quad area
- Significant glazing added to the building envelope fostering community connectedness and visual appreciation of the region
- 21st Century technology and audio/visual updates to support academic needs into the future

Operations Efficiency
- Modeled to capture nearly $100K in annual energy avoidance with attractive simple payback on key sustainable features
- Radiantly heated egress and terraces promotes safety and reduce snow removal maintenance
- Geothermal heating and cooling system eliminates cooling tower maintenance
- Five sources of building heating optimize efficiency and provide reliability
- Utilities tied to campus distribution systems for centralized maintenance