



## *Future Ready Facilities*





**Computer Science**



**Education and Human Services**



**Natural Resources**



**Skilled Trades**



**Business, Marketing, and Entrepreneurship**



**Health Sciences**



**Outdoor Leadership**



**Engineering & Advanced Manufacturing**

# *The Big 3*

## **College Credit**

College-level course sequencing offered on campus or through a higher education institution.

## **Industry Recognized Credentials**

Ability to earn an industry certification that validates the knowledge base and skills that show mastery in a particular industry.

## **Work-Based Learning**

Opportunities to dive into real-world experiences aligned to student interest and pathway.

## *Top 5 Reasons SSD Needs Future Ready Facilities*

1. Student demand is far exceeding current Pathway capacity.
2. Existing labs are undersized, outdated, or not designed for modern industry recognized credential standards.
3. Future Ready facilities allow programs to integrate and innovate.
4. Expanded CTE facilities directly advance the SSD Graduate Profile, strengthen SHS readiness goals aligned with Colorado's postsecondary and workforce success indicators.
5. Investing in CTE facilities is a direct investment in Summit County's economic future.

# *Business, Marketing, and Entrepreneurship: Why We Need an Industry Partnership Hub*



## **Business Incubation Space = Industry Partnership Hub**

- Creates professional collaboration areas with flexible workspaces, meeting rooms, and digital tools for campaigns, pitches, and student-led ventures
- Provides spaces designed for local businesses to mentor students, host pitch sessions, and co-develop projects
- Includes retail/product lab for maker-to-market pathways where students develop, test, and launch actual products and services

## **Overwhelming Student Demand**

- Serves the #1 Pathway as defined by student data (268 students with high interest)
- Accommodates 25 students turned away from Business Entrepreneurship and 61 students turned away from Graphic Design

## **Summit's Business Economy & High-Wage Careers**

- Supports Summit County's small business innovation economy—tourism, hospitality, retail, and entrepreneurship drive local growth
- Enables cross-pathway integration connecting marketing, multimedia, hospitality, and entrepreneurship to mirror real business operations

# Health Sciences: Why We Need Simulation Labs



## Job-Ready Skills Through Simulation

- Enables non-negotiable hands-on training—healthcare education cannot happen without simulation labs and clinical equipment
- Multi-Pathway Medical Lab provides flexible space supporting CNA, PCT, first aid, rehabilitation training, EMR & EMT programs with simulation capabilities for authentic medical knowledge application
- Realistic clinical settings prepare students for professional healthcare environments while connecting with Outdoor Leadership programs for wilderness medical applications, serving our active, adventure-based community

## Community Need & Student Demand

- Serves 143 students with high interest (66 at maximum); currently 44 students turned away from Health Science I due to facility limitations
- Prepares students for CMC's competitive nursing program (accepts only 12-14 students annually) with strong foundational skills

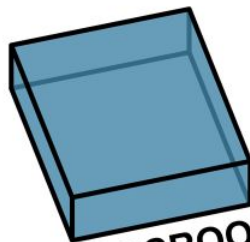
## High-Wage Careers & Employer Partnerships

- Prepares students for careers as Paramedics, EMTs, Nursing Assistants, Physicians, Nurse Practitioners, Surgical Technicians with built-in advancement opportunities
- Provides portable credentials for global career flexibility
- Strengthens partnerships with local hospitals (Vail Health & Common Spirit) already investing in our students

# Health Science



10'

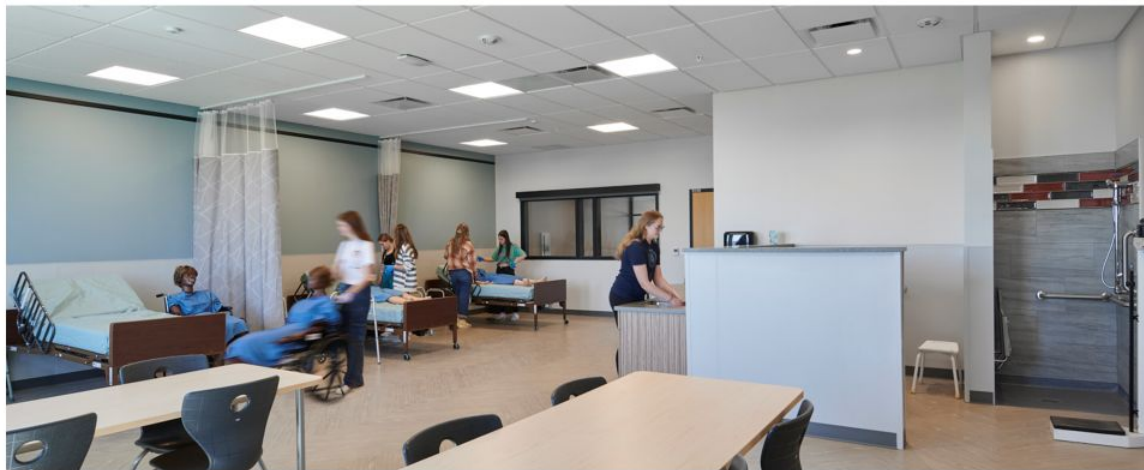


**CLASSROOM**  
1,800 sf (36'x30')



**STORAGE**  
250 sf

Flooring: **CLEANABLE**  
Special Equipment: **YES**  
Flexible: **POSSIBLE**  
MEP Requirements: **NO**



# Education & Human Services: Why We Need an On-Site Center



## Transformative Opportunities for Students

- Two specialized infant and toddler classrooms with adjacent outdoor areas provide on-site, daily hands-on experience in authentic childcare settings that meet all Colorado licensing requirements—eliminating transportation barriers and enabling immediate, consistent access to real-world learning
- One-way glass viewing areas allow student observation and teacher training assessment without disrupting children's learning environments

## Economic & Workforce Development

- Provides \$0.90 to \$4.25 return on every dollar invested in ECE infrastructure through improved staff retention, reduced absenteeism, and eliminates replacement training costs
- Creates local talent pipeline with 83% of Early Childhood pathway students attending college within their pathway
- Adds critical infant and toddler spaces to begin closing Summit County's childcare gap

## Strategic Benefits for Staff

- Attracts and retains highly skilled educators in a competitive mountain resort labor market through on-site childcare benefit (More than 20 staff completed or began parental leave in fall 2025)
- Eliminates fragmented childcare stress and reduces staff absenteeism when employees know their children receive exceptional care steps away
- Reduces costly turnover and replacement hiring expenses for the district

**BUSINESS, HEALTH, AND EDUCATION ADDITION**



# Skilled Trades: Why We Need Multi-trade Laboratories



## Industry-Standard Labs = Certified Graduates

- **Enables Program Expansion:** Dedicated lab space allows Skilled Trades programs to grow beyond introductory courses, supporting advanced pathways, certifications, and capstone-level work.
- **Year-Round, Industry-Standard Training:** An indoor lab provides consistent, all-season access to construction, welding, and fabrication experiences that mirror real job sites and meet industry safety and equipment standards.
- **Safety, Scale, and Equity of Access:** Purpose-built indoor labs ensure safe supervision, proper ventilation, and equitable access for all students, allowing programs to expand enrollment and instructional depth without weather or space limitations.

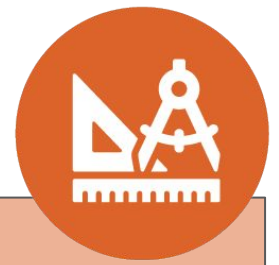
## Critical Student Demand & Workforce Shortage

- Serves 155 students with high interest; currently 49 students turned away from Welding I due to facility limitations
- Addresses Colorado's skilled trades crisis and Summit County's acute shortage driven by housing growth, infrastructure expansion, and workforce turnover

## High-Wage Careers & Community Impact

- Prepares students for careers as Construction Managers, Carpenters, Welders, Operating Engineers, First-Line Supervisors
- Engages students who thrive through making, building, and seeing tangible results rather than traditional classroom learning

# Engineering & Advanced Manufacturing: Why We Need Advanced Labs



## Modern Labs

- **Access to Industry-Standard Technology:** A dedicated advanced manufacturing lab provides students access to CAD, prototyping, automation, and fabrication tools that reflect modern manufacturing environments and postsecondary expectations.
- **Supports Higher-Level Technical Learning:** Purpose-built lab space allows students to progress beyond introductory design into advanced manufacturing processes, precision builds, and capstone-level projects.
- **Postsecondary & Workforce Alignment:** An advanced manufacturing lab supports interdisciplinary learning across engineering, math, and science, while enabling dual-credit coursework, industry certifications, and pathways into engineering, manufacturing, and technical college programs aligned to regional and statewide workforce needs.

## Student Demand & Growing Technical Careers

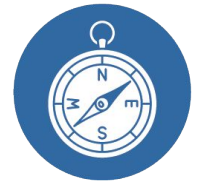
- 161 students rated high interest; Intro to Engineering at capacity with retention concerns without hands-on maker spaces
- Prepares students for expanding high-wage careers: Design, CAD, automation, advanced fabrication, architecture, construction technology
- Bridges students to postsecondary engineering programs with problem-solving, design, and technical skills aligned to college-level work, with opportunities for guaranteed admissions and transfer agreements with CU Boulder and Colorado School of Mines.

# SKILLED TRADES AND ADVANCED MANUFACTURING LABS ADDITION





# Outdoor Leadership & Natural Resources: Why we Need Specialized Space



## Specialized Labs = Field-Ready Graduates

- **Outdoor Leadership Lab:** Navigation, survival, wilderness first aid, and risk management training with equipment storage and field-ready workspace
- **Technical Skills Development Space:** Expanded, purpose-built lab spaces are required to support distinct instructional environments for ski/snowboard technology and bike mechanics, each with specialized equipment, layouts, and safety requirements.
- **Environmental Science Lab:** Field research equipment for ecology, stream monitoring, and CMC-aligned coursework
- Additional space enables shared programming between Outdoor Leadership, Natural Resources, and Health Sciences for wilderness medical training, emergency response, and environmental health applications.

## Summit County Relevancy & Local and Global Career Pathways

- 105 students rated high interest in Outdoor Leadership. 50% of students requesting Outdoor Leadership able to participate in course
- Partnering with Xcel Energy, Colorado Mountain College sustainability programs, Summit County Rescue Group, and Vail Resorts to provide real-world career connections in renewable energy, emergency response, and resort operations.
- Prepares students for environmental engineering, emergency management, firefighting, geological work including geothermal energy systems, solar energy systems engineering, and resort management and leadership.

# Computer Science: Why We Need Remodeled Modern Technology Labs



## Modern Labs

- **Cross-disciplinary technology integration lab:** Supports AI programming, cybersecurity, and data-driven design across multiple pathways
- **Industry-aligned infrastructure:** Flexible workspaces, secure storage, and professional organization standards
- **Collaborative technical environment:** Enables real-world projects and skill development in secure technology settings
- Updated infrastructure and collaborative workspaces are non-negotiable for modern computer science instruction

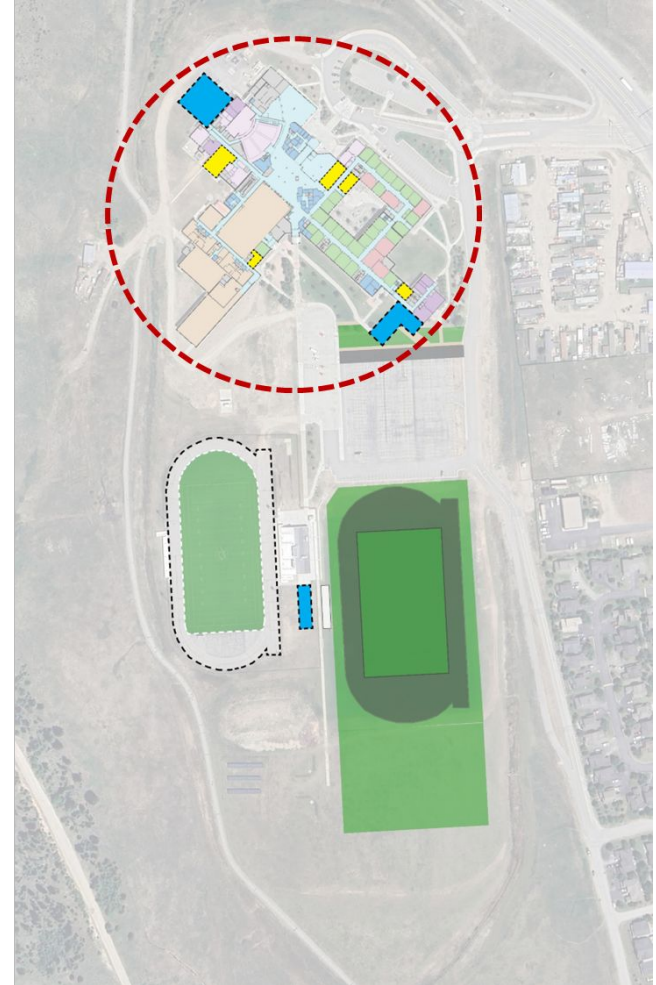
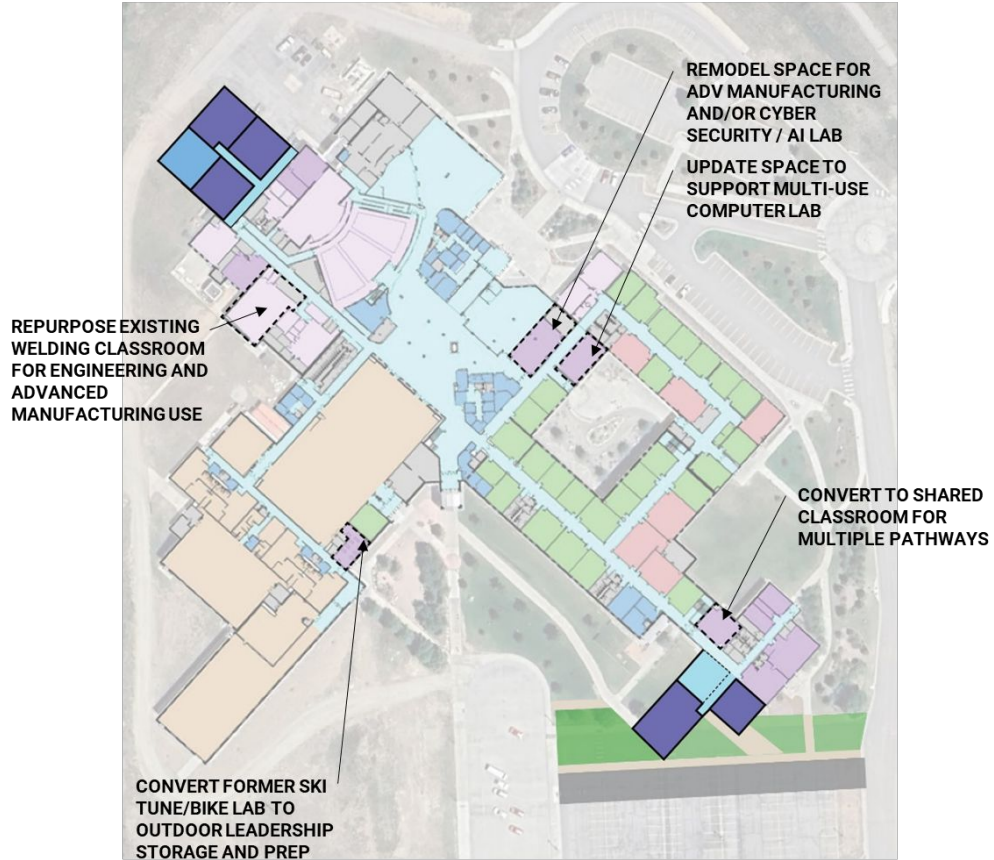
## Emerging Technology and Industry Evolution

- Strong growth potential for AI and specialized programming courses as the technology sector rapidly evolves, requiring access to the most current industry-standard equipment and software to prepare students for emerging careers in artificial intelligence, cybersecurity, and data science.

## High-Wage Careers

- Provides access to high-wage technology careers—critical for rural community retention and global competitiveness—while building transferable technical skills that align to college programs, industry certifications, and multiple career pathways for postsecondary success and direct workforce entry.

## MISCELLANEOUS RENOVATION AND REASSIGNMENT OF EXISTING SPACES



# Potential New/Renovated Spaces

Future Ready Pathway	New Construction	Renovated Space
Natural Resources		
Adv Eng & Manufacturing		2,162
Computer Science		950
Health Science	2,000	1,102
Education & Human Svcs	2,500	950
Skilled Trades	11,000	
Outdoor Leadership		787
Business, Marketing & Entrep.	1,500	
<b>Total New/Renovated Space</b>	<b>17,000</b>	<b>5,951</b>

# Anticipated FTE need for full program implementation

Future Ready Pathway	Anticipated Full Time Equivalent (FTE) Need
Natural Resources	0.34
Engineering & Advanced Manufacturing	0.5
Computer Science	0.5
Health Sciences	0.33
Education & Human Services	0.41
Skilled Trades	0.83
Outdoor Leadership	0.5
Business, Marketing, & Entrepreneurship	0.24
<b>Total Anticipated Full Time Equivalent (FTE) Need</b>	<b>3.65</b>

## *Discussion*

- Which facility gaps seem most urgent based on student demand and current limitations?
- Which spaces would create the most transformative experiences that students cannot get elsewhere?
- Which specialized facilities would create the strongest partnerships with Summit County employers, industries, and partners?