

Colorado Outdoor Recreational Leadership Course Scope and Sequence

Course Name	Mountaineering Leadership	Course Details	Level 4 course in the Outdoor Recreational Leadership Pathway.		
		Course = 0.50 Carnegie Unit Credit	Prerequisite: Mountain Orientation		
Course Description	This course will develop the knowledge, ability and leadership skills necessary to instruct and safely lead a group on a mountaineering experience.				
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all essential knowledge and skills are covered.				
SCED Identification #		Schedule calculation based on 60% of a semester instructional time. Scope and sequence allows for additional time for guest speakers, student presentations, field trips, remediation, or other content topics.			
All courses taught in an approved CTE program must include Essential Skills embedded into the course content. The Essential Skills Framework for this course can be found at https://www.cde.state.co.us/standardsandinstruction/essentialskills					
Unit Number, Title and Brief Description	CTE or Academic Standard Alignment	Competency / Performance Indicator	Outcome / Measurement	CTSO Integration	
Unit 1: Mountain Travel	Terrain Analysis Map Reading Compass Usage Distance vs. Time and Energy Self Arrest	Demonstration safe and efficient mountain travel Demonstrate good judgment relating to mountain travel.			
Unit 2: Rationing	Calories Required Menu Planning Food Packaging	Demonstrate knowledge of rationing.			
Unit 3: Weather	Cloud formation Wind Direction	Demonstrate knowledge of mountain weather.			
Unit 4: Equipment	Pack Sleeping Bag Boots	Demonstrate knowledge of the types, applications, and care of mountaineering equipment.			

	<p>Stove</p> <p>Clothing</p> <p>Tents</p> <p>Technical Gear (e.g. ice axe, anchors ropes, pickets, flukes, and ice screws)</p>			
Unit 5: Leadership and group handling skills		Demonstrate the fundamentals of outdoor leadership and group management skills as they related to mountaineering.		
Unit 6: Using experiences gained through mountain travel to develop judgment relating to outdoor leadership		Demonstrate the fundamentals of outdoor leadership and group management skills as they related to mountaineering.		
Unit 7: Technical	<p>Steep snow climbing (J. Lines, Prusik ascents/descents, sliding middle person)</p> <p>Crevasse Rescue (2-pulley system, 2 with a C pulley system, self extractions, aided extractions)</p> <p>Glacier Travel (use of wands, crevasse avoidance, rope systems)</p>	<p>Demonstrate crevasse rescue techniques.</p> <p>Demonstrate glacier travel techniques</p> <p>Demonstrates steep snow climbing techniques.</p>		
Unit 8: Interpersonal Skills	<p>Mountaineering Leadership (leadership skill and practice for technically based activities)</p> <p>Group Handling (group handling and safety procedures)</p> <p>Communication Skills (judgment development)</p>	<p>Demonstrate basic leadership skills</p> <p>Demonstrates basic good communication</p> <p>Demonstrates leadership considerations and techniques for mountaineering activities.</p> <p>Demonstrates knowledge of group dynamics for mountaineering activities.</p>		

<p>Unit 9: Teaching Methodologies (Traditional & experiential)</p>	<p>LessonPlan organization</p> <p>Leadership styles and techniques</p> <p>Group Dynamics</p> <p>Mountaineering equipment</p> <p>Safety hazards and considerations</p> <p>Insurance and Liability</p> <p>Guide Certifications</p> <p>Ethics and professional responsibility</p> <p>Interpretive Techniques</p> <p>Management agencies</p> <p>Permitting Process</p> <p>Land Navigation</p> <p>Leave No Trace/Minimum Impact</p> <p>Logistical Considerations</p> <p>Physical Conditioning</p>	<p>Demonstration of basic technical mountaineering skills.</p> <p>Demonstrate land navigation techniques for mountaineering</p> <p>Demonstrate methodologies appropriate for teacher various mountaineering skills.</p> <p>Demonstration developing lesson plans for teaching presentations.</p> <p>Demonstration safety requirements for mountaineering activities.</p> <p>Demonstrate knowledge of insurance and liability requirements for mountaineering activities.</p> <p>Demonstrates knowledge of mountaineering guide certification requirements and ethics.</p> <p>Demonstrate knowledge of natural history of specific alpine environments</p> <p>Demonstrates knowledge of resource managing agencies and the permit process.</p> <p>Demonstrates leave no trace/minimal impact approaches for the alpine environment.</p> <p>Demonstrates and ability to plan logistical components of mountaineering.</p> <p>Demonstrates knowledge of the importance of physical conditioning requirements for mountaineering activities.</p>		
