

Colorado Outdoor Recreational Leadership Course Scope and Sequence

Course Name	Backcountry Navigation		Course Details	3	Level 1 course Pathway.	e in the Outdoor Recreational Leadership	
			Course = 0.50 Unit Credit	Carnegie			
Course Description	This course teaches efficient backcountry navigation in a field-based or classroom setting using topographic maps and other appropriate navigation tools.						
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 / N	leasurement	CTSO Integration	
Unit 1: Map information	Map margin information, symbol, determining directions, scale, colors, measuring distance, slope and interpreting land forms using contour lines.	Identify map symbols and colors. Interpret topographic lines. Interpret map border information.					
Unit 2: Declination, understanding and correction		Identify map s colors. Interpret topos interpret map information.	graphic lines.				
Unit 3: Route Planning and plotting		Identify map s colors. Interpret topo information.	graphic lines.				

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Unit 4: Magnetic compass parts and applications		Use compasses to aid in backcountry navigation.	CTE
Unit 5: Map and Field bearing rules		Use bearings (azimuths), declination correction, and route planning for efficient backcountry travel.	
Unit 6: Taking and following a bearing		Use bearings (azimuths), declination correction, and route planning for efficient backcountry travel. Demonstrate proficiency in following and taking bearings, triangulation, lost procedures, pace, and orienting the topographic map to the actual terrain.	
Unit 7: Running an orienteering class	Strategies for efficiently running an orienteering class.	Demonstrate proficiency in following and taking bearings, triangulation, lost procedures, pace, and orienting the topographic map to the actual terrain. Demonstrate proficiency in placing one's position on topographic map using UTM coordinates and placing a position on map from given UTM coordinates.	
Unit 8 : Traveling in the Wilderness	Strategies for efficiently traveling in the wilderness	Appraise efficiency by selecting and following routes.	
Unit 9: Other tools, inclinometer, altimeters, and GPS.			

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