

Colorado Outdoor Recreational Leadership Course Scope and Sequence

Course Name	Backcountry Navigation		Course Details	Level 1 course in the Outdoor Recreational Leadership Pathway.
			Course = 0.50 Carnegie Unit Credit	
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 / Measurement	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 symbols and colors. Interpret topographic lines. Interpret map border information.		
Unit 3: Route Planning and plotting		Identify map symbols and colors. Interpret topographic lines. Interpret map border information.		

Academic Standards Alignment

Colorado CTE courses are required to integrate academic and essential skills into course content. The following academic standards have been identified as aligned to this course and should be integrated throughout instruction.

[CO CTE Academic Standards Resources](#) (Rubrics, integration strategies, etc)

[CDE Colorado Academic Standards Online](#) (Online standards lookup tool)

Reading, Writing, & Communicating

Standard 1: Oral Expression and Listening

- Prepared Graduate 1: Collaborate effectively as group members or leaders who listen actively and respectfully; pose thoughtful questions, acknowledge the ideas of others; and contribute ideas to further the group's attainment of an objective.
 - Students collaborate, communicate directions, provide feedback, and work together to complete navigation tasks and instructional activities.
- Prepared Graduate 2: Deliver effective oral presentations for varied audiences and varied purposes.
 - Students explain navigation concepts, demonstrate procedures, and communicate route-planning strategies to peers.

Standard 2: Reading for All Purposes

- Prepared Graduate 4: Read a wide range of informational texts to build knowledge and to better understand the human experience.
 - Students interpret topographic maps, symbols, contour lines, map borders, and route-planning information as informational texts and technical documents.
- Prepared Graduate 5: Understand how language functions in different contexts, command a variety of word-learning strategies to assist comprehension, and make effective choices for meaning or style when writing and speaking.
 - Students develop and apply specialized vocabulary related to cartography, navigation, compass use, bearings, coordinates, and wilderness travel.

Standard 3: Writing and Composition

- Prepared Graduate 6: Craft arguments using techniques specific to the genre.
 - Students evaluate route efficiency and justify route selections based on terrain analysis and navigation data.
- Prepared Graduate 7: Craft informational/explanatory texts using techniques specific to the genre.
 - Students apply route planning, navigation procedures, and documentation activities throughout the course

Standard 4: Research Inquiry and Design

- Prepared Graduate 10: Gather information from a variety of sources; analyze and evaluate its quality and relevance; and use it ethically to answer complex questions.

Note: Mathematics and Science standards will be added in the future. Visit the [Colorado Academic Standards](#) page for the most current version.