



Advanced Weather

Sample Schedule

Note: As with any tentative schedule, changes will be made as required to deliver the course.

DAY 1			
Time	Instructor	Duration	Lesson
0800		30 min	Course Introduction: goals, introductions (instructors & students), expectations, waivers, and preparedness.
0830		30 min	Review of pre-course readings
0900		30 min	Review of atmospheric circulations
0930	Break	15 min	
0945		60 min	Avalanche-weather connection: how weather affects the snowpack and avalanche conditions
1045		60 min	Case study exercise #1
1145	Lunch	60 min	
1245		45 min	Upper level flow patterns
1330		30 min	Weather resources: identifying basic circulation patterns using web-based resources and tools
1400		45 min	Using professional forecast products
1445	Break	15 min	
1500		45 min	Weather satellites
1545		30 min	Satellite exercise
1615		45 min	Snow-avalanche climates
DAY 2			
0800		15 min	Review day one and answer any outstanding questions
0815		75 min	Vertical temperature profile and upper level air resources
1000		30 min	Atmospheric waves
1030		15 min	Break
1045		30 min	Synoptic-scale circulation
1115		45 min	Local winds and their effect on the snowpack
1200		60 min	Lunch
1300		60 min	Weather resources: using internet resources to determine global and synoptic scale circulation patterns
1400		45 min	Historical weather and climate data
1500		15 min	Break
1515		60 min	Case study exercise #2
1615		45 min	Introduction to numerical weather prediction (NWP) models

DAY 3			
0800		15 min	Review day two and answer any outstanding questions
0815		90 min	Using weather models and forecast products
0945		30 min	NWP exercise
1015	Break	15 min	
1030		60 min	Avalanche-weather connection: NWP and avalanche forecasting
1130		30 min	Atmospheric circulation and ocean currents: El Niño / La Niña
1200	Lunch	60 min	
1300		120 min	The forecaster funnel: creating a <i>nowcast</i> and basic weather forecast using online weather resources
1500	Break	15 min	
1515		60 min	Quiz
1615		45 min	Course summary and question period
1700			Course conclusion