

**Field Applications in Resource Management
(NREM 333-3/NRES 798)
UNIVERSITY OF NORTHERN BRITISH COLUMBIA
August 23rd – September 3rd, 2021**

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COURSE OVERVIEW

The purpose of this two-week field camp course is to provide students with an overall professional-level integration of forest resource management that draws on the student's collective undergraduate experiences. Field camp provides a setting for students, instructors and resource professionals to discuss, apply and integrate principles from undergraduate course and lab work, field and employment experiences. Field camp provides resource management students with an opportunity to gain practical experience applying creative and innovative integrated resource management skills and techniques to manage for non-timber forest resource values at multiple temporal and spatial scales. Field camp provides third year students with a foundation for fourth year courses that require knowledge of multiple resource values and issues, and integration of this knowledge. The course is taught in a modular format with the content being delivered by local experts working in the field of integrated resource management. The course is carried out in a setting that promotes teamwork and discussion.

SOME RULES

You will all be living in close quarters for the next 2 weeks and will be expected to use proper camp etiquette and conduct yourself in a safe manner at all times. You will be randomly assigned to cabins (genders will not be mixed) and you will have designated shower and laundry times according to those cabin assignments. You will be expected to be ready to go into the field at the designated time each day and have all of your field gear (water, food, medication, raingear, cruise vest, etc.) with you upon departure. You will be expected to be considerate and respectful of all presenters who present at field camp. Each instructor has made a huge effort to come to field camp and each should be given their chance to present their materials without interruption.

Students are responsible for informing themselves of the risks associated with field and laboratory studies. By participating in such studies they shall be deemed to have accepted personal responsibility for all such risks (including, without limitation, all risks identified by course instructors/supervisors and in literature that has been published by the University or that has otherwise been made available to students), to have agreed to abide by the safety rules and procedures established by their instructors/supervisors for such activities, and to have waived the liability of the University of Northern British Columbia and its instructors/supervisors in respect of such activities.

UNBC has very strict guidelines (these can be found under "Regulations and Policies" see <http://www.unbc.ca/calendar/undergraduate/regulations>) concerning cheating and plagiarism that you must adhere to. As indicated in the Calendar: Prohibited conduct also includes possessing or using intoxicating beverages in areas other than those given specific authorization by the University's Liquor Policy and possessing and/or selling illegal drugs or narcotics. Personal vehicles and pets are not allowed at camp.

Note: "Students with diverse learning styles and needs are welcome in this course. If you have a disability or health condition that may require accommodations, please feel free to approach me and/or the UNBC Access Resource Centre (ARC) as soon as possible. ARC staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations to assist you in achieving your academic goals. ARC is located in the Teaching & Learning Building in Room 10-1048. More information regarding registration can be found at www.unbc.ca/access-resource-centre. They can also be reached by telephone at 250-960-5682 or email at arc@unbc.ca."

INSTRUCTING

Roy Rea

Mike Jull
Colin Chisholm
Bruce Rogers
Mark Thompson
Paul Sanborn
Barry Mills
Jesse Laframboise
Scott and Lynn Pichette
Alex Burkinshaw

Dexter Hodder

Shannon Crowley
Sue Grainger
Larry Garrett
Michael Watson
Les Szerencsi
Nick Plett
Gerd Erasmus
Jamie Fenneman
Lauren Runge
Samantha Gonzalez

STUDENT EVALUATIONS

Course Component	Percentage of Course
Assignments/Quizzes	45%
Field notebooks	15%
Participation/preparedness/attitude	15%
Case Study (scored against peer evaluation)	25%

Your presentation mark will be based not only on your final presentation of your scenario for the case study, but also on your ability to work with other groups and other points of view and if you are able to provide details on how you came to the conclusions reached in your final argument. We would like to see the process that led you to your conclusion and how well you were able to participate as a group in the roundtable process. Because this is a concentrated course offering, attendance during each day of the course is required. If you must be away for any reason other than one that is medical in nature, 8.3% of your grade will be deducted for each day that you are unable to attend camp.

SCHEDULE:

DATE/TIME	ACTIVITY/MODULE
AUGUST	
Mon. 23rd	
Day 1: Welcome, Introduce Case Study, Forestry Roads	
0900	Room 5-154: Welcome and short introduction to field camp and Case Study: “Managing for Forest Biodiversity and Ecosystem Services”
1030	Break into teams and allocate field gear
1100	Meet with Canfor Instructors / Lunch in the vans on the way to Roads module
1200	Forestry Roads - Layout and Construction: <i>Les Szerencsi (Purchase Supervisor – Forest Management Group East, Canfor)</i>
1730	Head Home/Readings for next day’s modules: QUIZ 1a: Complete the Bear Aware Training on line and turn in to Roy and Jesse on Tuesday morning.
Tues. 24th	
Day 2: Introduction to Aleza Lake Research Forest, Wet Belt Stand Dynamics, and Guide Outfitter Values	
0730	Leave UNBC for Aleza Lake Research Forest
0900	Changing Forests I: Understanding Forest Disturbances, Dynamics, and Silvicultural Systems: “Wetbelt” spruce-subalpine fir forests and moist rich ecosystems: <i>Colin Chisholm (Assistant Manager of the Aleza Lake Research Forest) & Samantha Gonzalez (Forest Projects Supervisor, Aleza Lake Research Forest)</i>
1230	Lunch Break
1300	Changing Wetbelt Forests: Continued (<i>Colin Chisholm and Samantha Gonzalez</i>)
1600	Considerations for Guide/Outfitters Values in Forestry Operations: <i>Scott Pichette (Guide/Outfitter- Bowron River Guiding)</i> (Supper and Overnight)
1800	Supper
2000	Reading time for next day’s modules/Ready
Wed. 25th	
Day 3: Guide Outfitter Values	
0700	Breakfast
0800	Considerations for Guide/Outfitters Values in Forestry Operations (continued)
1200	Lunch
1230	Considerations for Guide/Outfitters Values in Forestry Operations (continued)
1500	Work on Assignment 2
1800	Supper
1900	Work on and present ASSIGNMENT 2 (continued)
2200	Recommended reading/bed time at Guide Outfitter Camp.
Thurs. 26th	
Day 4: Aquatic Values: Fish and Streams, Deciduous Management, Lidar	
0700	Breakfast at Guide Camp then head to Hansard Creek
0900	Aquatic Values, Assessment and Rehabilitation: <i>Jesse Laframboise (Biologist – DWB Consulting Services)</i>
1200	Lunch in the field
1300	Plant-Animal-Chemical Interactions in Deciduous Forests: <i>Roy Rea & Mike Jull (Manager, Aleza Lake Research Forest)</i>
1500	Use of Lidar as a Planning Tool in Small Tenures: <i>Colin Chisholm</i>
1630	Head back to UNBC
1730	Arrive back at UNBC – TAKE HOME QUIZ 1b – <i>from field notes, readings and Bear Aware</i>
2000	Recommended reading/bed time and pack for the rest of camp

Fri. 27th	Day 5: Range Values, Dry Belt and Fire, Welcome to the JPRF
0630	Leave UNBC for Vanderhoof Forest District and John Prince Research Forest
0800	Rangeland Management Considerations and Forestry: <i>Larry Garret (Bobtail Range Tenure Holder)</i>
1130	Lunch in the Field
1200	Changing Forests II: Understanding Forest Disturbances, Dynamics, and Silvicultural Systems: “Dry-belt” Douglas-fir – Pine-Spruce Forest Ecosystems: <i>Mike Jull</i>
1600	Drive to the John Prince Research Forest and unload gear into cabins
1830	Supper
1930	Get settled into cabins and organized for the field
2200	Recommended reading/bed time
Sat. 28th	Day 6: Introduction to the JPRF, Amphibians, Forest Soils, and BBQ
0700	Breakfast/Pack Lunch
0800	Introduction to the John Prince Research Forest: <i>Sue Grainger (Manager – John Prince Research Forest) and Dexter Hodder</i>
0900	Herpetology and invertebrate ecology: Connecting the wetland continuum from lotic environments to upland terrestrial forests: <i>Mark Thompson (Senior Ecologist – Ecologic Environmental Consulting, Jamie Fenneman Botanist, Ecologist - Ecologic Environmental Consulting)</i>
1200	Lunch in the field
1230	Reading the landscape: Links between Bedrock Geology, Landforms, and Soils: <i>Paul Sanborn (Forestry Professor – UNBC)</i>
1730	Presenters/Faculty Supper Soiree and Bar-B-Que
Sun. 29th	Day 7: Mesocarnivore Management & Forest Birds
0800	Late Breakfast/Pack Lunch
0900	Block 67: Considering Habitat Features in Block Design: <i>Dexter Hodder</i>
1130	Managing and Monitoring for Furbearers: <i>Shannon Crowley (Ecological Monitoring Coordinator - JPRF)</i>
1200	Lunch in field
1430	Forest Birds and monitoring: <i>Lauren Runge (Undergraduate thesis student, UNBC)</i>
1800	Supper
1900	ASSIGNMENT 3
2000	Reading time for next day’s modules
2200	Recommended bed time
Mon. 30th	Day 8: Forestry Legacies, Operations and Planning
0700	Breakfast/Pack lunch
0800	Forestry Legacies – Influence of Forest Management on Timber and Non-Timber Values: <i>Sue Grainger</i>
1230	Lunch in the vans
1300	Operational Aspects of Site-Level Planning: <i>Barry Mills (Vice President, Operations - Industrial Forestry Service) and Alex Burkinshaw (Project Development Manager, Allnorth)</i>
1830	Supper
2100	Reading time for next day’s modules
2200	Recommended bed time

Tues. 31st	Day 9: First Nations Perspectives
0700	Breakfast
0800	First Nations Holistic Management for our Forests: <i>Community members of Tl'azt'en and Nak'azdli First Nations</i>
1230	Lunch/Open House with Community at the Cinnabar
1330	First Nations Holistic Management for our Forests: <i>Community members of Tl'azt'en and Nak'azdli First Nations</i>
1800	Supper
1900	ASSIGNMENT 4 – Develop an outline of your case study presentation
2000	Reading time for next day's modules
2200	Recommended reading/bed time
Wed. 1st	Day 10: The Deadwood Continuum, Trapper Forestry
0700	Breakfast/Pack lunch
0800	Deadwood Continuum: Maintaining Biodiversity: <i>Bruce Rogers (FLNRO Regional Research Ecologist – Omineca/NorthEast, BC Forest Service).</i>
1200	Lunch Break at the Cinnabar
1230	Trapper Forestry: <i>Gerd Erasmus (Stewart Nechako Local of the BC Trapper's Association)</i>
1700	Supper
1830	QUIZ 2 – from field notes and readings
2000	Reading time for next day's modules and work on case study presentations
2200	Recommended reading/bed time
Thurs. 2nd	Day 11: Reconnaissance Work and Total Chance Planning
0700	Breakfast/Pack Lunch
0800	Visual Quality: (<i>Dexter Hodder</i>)
1000	Reconnaissance work on blocks
1200	Lunch in the field
1230	Reconnaissance work on blocks
1500	Total Chance Planning: <i>Nicholas Plett, (Forestry Supervisor – Canfor, Vanderhoof) and Michael Watson (Area Forester – Sinclair Group Forest Products)</i>
1830	Supper break
1900	Work on case study presentations
Fri. 3rd	Day 12: Case Study Presentations and Wrap Up
0700	Breakfast/Pack Van and Truck
0830	Case Study Presentations/Consensus Building
1200	Lunch
1230	Turn in Field Notebooks for Marking/Course Evaluations/Contest Judging/Head Back to UNBC
1300	Stop and Watch Kokanee Spawn at Tsilcoh Creek & Take Group Photo (optional)
1600	Arrive UNBC - Farewell