FRST 555 -Fundamentals of Sustainable Forest Land Management

Summer Term Monday Aug. 20 – Saturday Sept. 1, 2018

Instructors:

Ms. Deborah DeLong deborah.delong@ubc.ca, Office FSC 2301, phone 604-822-0613

TA: Kathleen Coupland Kathleen.Coupland@.ubc.ca Office FSC 2310, phone 604-418-1321

Calendar Description

Sustainable forest management maintains the long-term health of forest ecosystems while providing environmental, economic, and social, benefits for present and future generations. In sustainable forest management the principle objective of this course is to create a common base-level understanding of fundamental forestry concepts within the incoming cohort of professional Masters students. A secondary objective is for the incoming students to bond as a group. The field component will enable students to link theory to practice, learn about contemporary problems in sustainable forest management from local community members and land management professionals, and see examples of stand and forest level planning and plan implementation.

The course will consist of a reading package to be sent to the students prior to the commencement of the course, a one-week on-campus instructional session and a one week immersion field camp. The field camp will take place in Nelson, BC.

Learning Outcomes

- 1. Students will understand how to diagnose site and stand conditions.
- 2. Students will begin to understand how site-level objectives and site and stand diagnoses are integrated in silviculture prescriptions.
- 3. Students will be aware of contemporary forestry issues and how land management professionals work with stakeholders and resource information to develop site and forest level plans.

Recommended textbook Forestry Handbook

Marking

First week quiz 20%
Field Note Book 35%
Crew Challenge 30%
Effort/Participation 15%

FRST 555 -Fundamentals of Sustainable Forest Land Management

| Week 1 | | | | |
|------------------|--|---|--|--|
| DATE | Topics and Activities | Instructor/participants | | |
| Monday August 20 |)th | | | |
| 8:30 -10 :00 am | Welcome to the program Introductions (all) handout name tags(will be kept for alumni event in Nelson) brief synopsis of the goals of the program overview of schedule for the year major assignments and projects online calendar | Deb DeLong RPF, Lecturer and Coordinator MSFM program | | |
| | Overview of FRST 555 (plan for the week, transportation, clothing, etc) Marking for 555 Daily question submission for quiz (first 3 days material, email Kathleen question by 9pm) Introduce website Hand out field notebook | | | |
| 10:00-10:15 am | Break | | | |
| 10:15-11:00 am | Logistics Office assignment Student mailbox location 2430 room alarm/keys (code 249617) Website/Class communication (Facebook, Instagram, twitter volunteers?) Safety binder Safety field forms (dietary restrictions) Release of photo form Tree Frog news service Drivers? FRST 555 2nd week field trip overview -field notebook/iPad, field forms -Crew assignments -Crew challenge | Deb DeLong, Lecturer and Coordinator MSFM program, Kathleen Coupland, MSFM, PhD student (TA) | | |

| | -pre-reading for rest of the week and field trip (switch to website from connect) Sign-out laptops Student CWL | Carl Johansson, IT manager |
|------------------|---|---|
| 11:00-noon | Dean's welcome and SFM Criteria and Indicators | Dr. John Innes, Dean faculty of Forestry |
| Noon- 3:00 pm | Lunch break LUNCH PROVIDED Intro to FGSA- Social events | FGSA rep |
| | Continue with laptops as required Campus treasure hunt in teams | Kathleen |
| 3:00-4:00 pm | Intro to soil genesis and classification | Ashkit Puri and Kiran Padda Grad students, Soil Science |
| Tuesday August 2 | 1st | |
| 8:30- 10:00am am | Tree biology | Dr. Rob Guy, Department Head Forest and Conservation Sciences |
| 10:00- 10:15am | Break | |
| 10:15 -11:00am | Ecosystem classification Readiness Assurance for BEC Individual and team quiz Make sure that you have reviewed the Selkirk links in the pre-reading and the power point posted in FRST 555 under Lectures and Supplementary Reading by Monday Aug 21st! 1. http://frst555.forestry.ubc.ca/course-materials/ 2. http://selkirk.ca/discover/bec/zones/indexsites.html 3. http://selkirk.ca/discover/bec/sites/indexsites.html | Deb DeLong |
| 11:00-12:30pm | Biotic disturbances • Insects | Dr. Alan Carroll and Dr. Richard Hamelin |

| | • Diseases | | | |
|----------------|---|---|--|--|
| 12:30-1:00pm | Lunch break (meet at UBC Farm parking lot 1:00pm) | | | |
| 1:00-2:30 pm | UBC FARM • Site diagnosis with focus on soil pit description | Ashkit Puri and Kiran Padda, Grad students, Soil Science | | |
| 2:30-4:30 pm | UBC FARM Observational skills building Natural disturbance, anthropogenic influences, stand dynamics Links between pattern and process Stand level decision making | Dr. Richard Hamelin | | |
| Wednesday Aug | ust 22nd | | | |
| 8:30 – 9:00 am | Travel to Musqueam Village | All and Alison Krahn Aboriginal Initiatives Coordinator | | |
| 9:00- 11:00 am | Musqueam Village tour http://www.musqueam.bthankc.ca/educational-tours | | | |
| 11:00-1:00 pm | Lunch break/ to STANLEY PARK (Meet at totem poles) | | | |
| 1:00 -1:30 pm | Case Study: STANLEY PARK Plan http://vancouver.ca/files/cov/Stanley-Park- Forest-Management-Plan.pdf History of Stanley Park - First Nations - European settlement | Deb DeLong | | |
| 1:30-2:00pm | Living memories: views on Culturally Modified Trees in BC. CMTs near picnic site just past Prospect Point | Seraphine Munroe, Graduate Student Faculty of Forestry | | |
| 2:00-4:30 pm | Prospect Point (2006) wind damaged area | | | |
| | Bill Stevens, Forester, Parks Board | | | |

| | | T |
|-------------------|--|--------------------------------|
| | Parks response to the storm | |
| | Public communications plan | |
| | - Challenges and successes? | |
| | 0 | |
| | Forest Management Plan | Bruce Blackwell, BA Blackwell |
| | | and Assoc. |
| | Challenges and successes | and Assoc. |
| | | |
| | | |
| | | |
| Thursday August 2 | 23rd | |
| | | |
| | | |
| 8:30-9:30 am | | |
| | The What, Why, and How of managing | Dr. Cole Burton, Wildlife |
| | forest wildlife | Biologist, Assistant Professor |
| | Torest whalie | Faculty of Forestry |
| | | ractity of Forestry |
| 0.20 10.20 | I hadwala ma | |
| 9:30-10:30 am | Hydrology | |
| | Forestry and the fluvial system | Dr. Andres Varhola, |
| | How does the forest influence | Hydrologist, Faculty of |
| | floods, low flows, timing of flows | Forestry Lecturer |
| | and channel stability in rain and | , |
| | snow regimes? | |
| | | |
| | What do Professional Foresters need to | |
| | know to ensure they are sustainably | |
| | managing watersheds? | |
| | Required reading go to website | |
| | http://frst555.forestry.ubc.ca/course- | |
| | materials/ | |
| | <u>materially</u> | |
| 10:30 13:00 | Individual prostings and logistics at acquired | |
| 10:30-12:00 am | Individual meetings and logistics at required | |
| | | |
| 12:00-1:00 pm | lunch break to JERICHO PARK meet at parking lot | |
| | by 1:00 pm (if you need a ride to Jericho meet in | |
| | FSC 2430 at 12:30pm) | |
| | | |
| 1:00-3:00 pm | Case Study: JERICHO BEACH | |
| J | The Urban Forest | |
| | THE OTDAIL LOTEST | |
| | - | 5.11.61 |
| | City of Vancouver | Bill Stevens, Forester, Parks |
| | current direction and vision (~30 mins) | Board |
| | | Judith Cowan, RPF BA |
| | | Blackwell and Assoc. |
| | Jericho Park and beach restoration Case | |
| | | Nick Page, Biologist, City of |
| | Study (~30 mins) | |
| | | Vancouver |
| 1 | | |

| | Public role in restoration (~30 mins) | Frank Heinzelmann or representative, Jericho | |
|--|--|--|--|
| | Questions/Discussion (~30mins) | Stewardship Group All | |
| 3:00-3:30 pm | Exercise: In your groups take 30 mins and explore the surrounding area. Make observations of what is there (stand comp). Consider the following questions to contribute to a discussion: 1. What ecosystem services is this area providing now? 2. Do you see any potential problems? Is it working? 3. What improvements could be made? | Student groups | |
| 3:30-4:30 pm | Student groups present their thoughts Open Discussion | All | |
| Friday August 24t | h | I | |
| 8:30-9:30 am | Multiple choice quiz (on first 4 days material) | | |
| 9:45-4:00 pm, with a 1 hour break for lunch. | Measurements day Meet in the UBC Classroom. For part of the day, we will be outside at the Rhododendron Forest (5 minute walk from our building) — bring warm clothing, rain gear, etc. suitable for being in the woods for about 2 hours. In this workshop, you will learn about and practice: orienteering, measuring trees, measuring plots, and summarizing data for one stand. | Kathleen Coupland, PhD student | |

Saturday August 25th Off

| DACEDA | | | | |
|---------------|---|--|--|--|
| IVISFIVI | FRST 555 Fundamentals of Sustainable For | est Management | | |
| | Week 2 (Field trip) | | | |
| Sunday August | 26 th | | | |
| 8:00am | Leave UBC for Nelson | | | |
| Along the way | Coast /interior transition | | | |
| ~6:00 pm | Arrive Dancing Bear Inn, Nelson Question of the day. Each morning a different crew will come up with what the question of the day is. Question should be relevant to the day's agenda topics. Each crew will formulate their thoughts on the question and we will discuss it as a group at the end of the day. First Question: What are the big issues of the day (Monday)? | | | |
| Monday Augus | t 27 th | | | |
| 8:00-8:40 am | Drive to bottom of Redfish (WADF sign) | | | |
| 8:40-9:00 am | Welcome to the Selkirk Forest District | Tara DeCourcy, RPF District Manager | | |
| 9:00-9:10am | Introduction of the new Director of the MSFM program Of Forest Ecology, Direct MSFM Program | | | |
| 9:10-9:20 am | Overview of WADF (history) | Deb DeLong, UBC | | |
| 9:20- 9:45 am | Drive to ESSF - 11.5 km Redfish Forest Service Ro | ad | | |
| 9:45-10:30 am | Overview of ecology in FM | Deb McKillop, Regional research ecologist MFLRNO | | |

| | BEC, ESSF- disturbance agents, how did these stands get here BEC re-classification Climate change? | | | |
|----------------|--|---|--|--|
| 10:30-12:30 pm | Site Diagnosis exercise (see appendix 1) (5 student crews with one ecologist each) Lunch on the go | Deb McKillop, Regional research ecologist MFLRNO Doug Thorburn RPF, consultant Dr. Suzanne Simard RPF Eva Snyder, MSc student | | |
| 12:30-1:30pm | Group discussion of site diagnosis | all | | |
| 1:30-1:45pm | Beware of the sediment sources! | Dr. Peter Jordan, Consulting Geomorphologist | | |
| 2:00-2:30pm | Mother Tree Research Trial, Designing successful forest renewal practises for our changing climate Overview of research Move down to 2.8 Km Redfish FSR | Dr. Suzanne Simard RPF | | |
| (| Operating in Community Watersheds Discussion Move down to Redfish school near the spawning channel. | | | |
| 2:45-3:15 pm | FRPA requirements Public (water license holder) issues Political and legal aspects of working in watersheds | Russ Laroche RPF BC Timber Sales Manager, MFLNRO | | |
| 3:15-3:30pm | Hydrogeomorphic investigation of Redfish Creek An introduction to hydrogeomorphic processes of mountain watersheds Identifying forest – stream channel inter Required reading: LMH 61 | Dr. Peter Jordan, Consulting Geomorphologist s of | | |
| 3:30-4:00pm | Water user perspective What has the experience been like? Are the current processes effective? | | | |
| 4:00-4:30 pm | Questions and discussion | All | | |
| 5:00 pm | Arrive back in Nelson | | | |
| 6:30 pm | Dinner | | | |

| After dinner | Question of the day. Take care to keep concise notes that will help you to synthesize what you heard today and be able to answer the question of the day and summarize it in your notebook CLEARLY. • Notebook exchange | | |
|----------------|---|--|--|
| Tuesday August | 28 th | | |
| 8:00-9:00 am | Drive to WADF. Lower Kokanee ICHdw | | |
| 9:00- 9:30 am | Overview of the ICHdw Landscape level disturbance processes Differences as you come downslope | Deb McKillop, Regional research ecologist MFLRNO | |
| 9:30-11:00 am | Site Diagnosis exercise (see appendix 1) One Ecologist for each student group | Deb McKillop, Regional research ecologist MFLRNO Doug Thorburn RPF, consultant Dr. Suzanne Simard RPF, Faculty of Forestry Eva Snyder, MSc student | |
| 11:00-12:00 am | Group Discussion of site diagnosis All | | |
| 12:00-12:30 pm | Lunch | | |
| 12:30-3:00 pm | Landscape level planning Lower Bradley Face Roa | d | |
| 12:30-12:40pm | History of prescription development objectives of ecosystem restoration burn | Deb DeLong, RPF, UBC | |
| 12:40-1:30 pm | Fuel mitigation and carbon management Province's new direction | Julie Castonguay,RPF MFNRO | |
| 1:30-2:00pm | Mountain Caribou. A practitioner's point of view Leo DeGroot Erin Reid Wildlife Biologogeneest Erin Re | | |
| 2:00-2:30pm | • SARA | Paul Rasmussen | |

| | Mountain Caribou recovery plan overview | Executive Director, Species at Risk Recovery Branch, Cranbrook BC | |
|----------------|---|---|--|
| 2:30-3:00 pm | Questions, discussion | All | |
| 3:00- 4:30 pm | Stand development exercise (Range of Residual Basal Area in WADF). Followed by group discussion (see Appendix 2) | Deb Delong, RPF UBC | |
| 5:30 pm | Arrive back in Nelson | | |
| 6:30pm | Dinner | | |
| After dinner | Question of the day discussion. | | |
| | Drawing on what you learned in the last 2 days what kinds of questions/data do you need to ask/collect before developing a forest management plan? In your crews brainstorm your list of questions /information needs before we head out to see some different tenures and how they are actually being managed. Record your questions in your field notebook. | | |
| Wednesday Au | gust 29th | | |
| 8:00-9:00 am | Drive to Harrop Proctor Community Forest | | |
| 9:00-10:30 am | BC Community Forest Association - overview HP Community Forest Video | Susan Mulkey, BCCFA | |
| | History and evolution Vision, Goals, Objectives • HPCF Forest Management Planning • Values from the forest? Water, NTFPs? Community relationships • How do they participate? • How has it changed over time? | Erik Leslie, RPF, HPCF | |
| 10:30-11:00 am | Get to exercise sites | | |
| 11:00-12:30 pm | Site-level prescription links to forest level objectives exercise (see Appendix 3) | Erik Leslie, RPF, HPCF Deb DeLong,RPF | |
| 12:30-1:00 pm | Lunch | | |
| 1:00-2:00 pm | Groups present their findings. Group discussion | all | |

| 2:30-4:00 pm | Value-added forest products FSC certification Communication from the mill to woodlands and back? How are revenues dispersed to the community? Visit timber frame project near mill if time (See Appendix 3) | Rami Rothkop, Sales and Marketing HPCF Eric Martin, HPCF | |
|------------------|---|---|--|
| 4:00-5:30 pm | Drive back to Nelson | | |
| 6:00 pm | Dinner | | |
| Thursday August | 30 th | | |
| 7:30-8:00 am | Drive to KALESNIKOFF Lumber Company Ltd. Mill, 1 | Γhrums BC | |
| 8:00 – 8:15 am | Welcome and Introductions | Tyler Hodgkinson RPF, Woodlands Manager | |
| 8:15- 9:30 | Overview of Kalesnikoff's operations - Brief history - Types of tenure - Wood profile versus product markets - Woodlands relationship with the mill - FSC certification | Tyler Hodgkinson RPF Woodlands manager Reg Koodrin, Woodlands staff | |
| 9:30-10:15 am | Drive to Blewett CP 41-2 and CP 39-1 | Rob Giesler, Harvesting Supervisor | |
| 10:15-11:30 am | Blewett- view active harvesting - Ground based (Sookro Logging) - Cable (Quest Yarding, Skylead yarder) - Safety considerations - Harvesting plans | | |
| 11:30-1:30 pm | Drive to Schroeder Creek CP 38-3 (eat lunch on the way) | | |
| 1:30-2:30pm | Schroeder Creek Steep slope harvesting (Hlookoff logging, Washington Yarder) | | |
| 2:30-5:00 pm | Drive back to Nelson (stop to see road construction at Summit South Six Mile if time permits, Hlookoff Bulldozing) | | |
| Friday August 31 | <mark>st</mark> | | |
| 8:00- 9:00 am | Drive to Kalesnikoff mill | | |

| 9:00-12:00am | Mill tour and reman (Kootenay Innovative Wood) Ken Kalesnikoff, President | | | |
|------------------|---|-----------------------------|--|--|
| | tour | CEO, Kalesnikoff Lumber Co. | | |
| | (see Appendix 4) | | | |
| 12:00-1:00 pm | Drive back to Nelson and Lunch | | | |
| 1:00-2:30 pm | Time for preparation of Crew Challenge. All guest speakers/volunteers are welcome to come and listen and ask questions. (See Appendix 5) | One presentation per group | | |
| 2:30-5:00 pm | Student Team Presentations (20 minute presentations and 10 minutes for questions) TBD | All participants invited | | |
| 5:00-9:00 pm | | | | |
| | Hosted reception for all volunteer speakers and UBC alumni. Rel-ish Restaurant, Nelson BC | nd All participants invited | | |
| | | | | |
| Saturday Septemb | er 1 st | | | |
| 8:00 am | Drive back to Vancouver | | | |

Appendix 1: Stand and site Diagnosis Student Exercise

Objectives

- To observe and describe site and stand characteristics
- To evaluate site quality and conditions which limit tree growth
- To evaluate past stand development and probable future development

Methods

With your crew observe/measure site and stand features and answer the following questions.

• For the Tree Layer describe:

Age class structure (even, all, multi-aged)

Species, stocking and condition (health, form, live crown ratio) by canopy layer

Spatial distribution of stems, gaps, mortality, snags, coarse woody material

Damage or pathological indicators, site index, productivity, value

Probable stand origin, current successional stage, current stage of stand development,

future stand development

• For the Shrub, Herb and Moss Layer describe:

Species, percent cover and distribution

Probable response to removal of overstory and consequences for regeneration

• For the Site and Microsite describe:

General climate in zone (growing season, growing season frost, precipitation, snowpack)

Topography of site (aspect, slope, slope position, stability, erosion)

Micro-topography of site

Forest floor and mineral horizons

SMR and SNR

Conditions which limit growth (abiotic and biotic)

Microsites which provide most favourable conditions for growth

Features which limit access for harvesting or silviculture

Seasonal constraints on access

Wildlife use

Results

Record your observations in your notebook. You will be asked to contribute to a group discussion of the site and stand diagnosis in the field. This exercise is not graded but the quality of your field notes will be considered when your notebook is marked and during notebook exchanges.

Appendix 2: Stand Development Exercise

Objectives

- To observe and describe site and stand characteristics
- To evaluate past stand development and probable future development
- To develop observational skills
- To practise measurement skills

Methods

Student crews will be placed in one of 4 different partial cut treatments. In a 50x50m plot, you will have 45 minutes to use your observational and measurement skills to answer the following questions.

Questions

- What will your stand look like in 100 years?
- What did it look like 50 years ago?
- Do you have any concerns?

Consider: what was taken out? What was left? Is there regeneration? What species is the regen and how did it get there and how is it doing? What are the current growth rates?

Results

Record your observations in your notebook. You will be asked to contribute to a group discussion.

Appendix 3: Site Level prescription critique

Objectives

- To determine what treatments were completed in a stand
- To practise using maps
- To understand the link between stand level prescriptions and forest level planning
- To think critically about the suitability of silviculture interventions at providing target stand conditions
- To develop observational skills
- To practise measurement skills
- To understand what a prescription is.

Methods

Crews will have 45 minutes to observe and measure a 50x50m site. You will be given maps, information on BEC and site series. We will then get together for a group discussion where you will present your information and conclusions get more information on what the forest level objectives are for your site.

Questions

Crew questions:

- What has been done on the site?
- What evidence do you have of treatments?
- Any evidence of wildlife use?
- Any forest health issues?
- What measurements did you do to help you in your discovery?

Group Discussion:

- What are the forest level objectives?
- What are the target stand conditions? Have they or will they be met?
- Will this prescription meet forest level objectives?
- What if the objectives were changed? What would you have to do differently?

Results

Answer the questions above in your field notebook. Record your observations and any measurements in your notebook. You will be asked to contribute to a group discussion.

Appendix 4: Mill Tour Exercise

Objectives

- To know the phases in production of wood products from raw logs.
- To observe the linkage between log size and quality, and the type and value of wood products manufactured.
- To understand the differences between value vs volume mills.

Methods

During the mill tours, consider the following questions. Mills can be noisy. The tour guides will stop periodically in the quieter areas. These are the best places to ask your questions. Stay with the group and be alert for moving equipment, logs and lumber throughout the tour.

Questions

- How does log size and quality influence the value of products?
- What use is made of the proportion/components of the logs not converted to lumber?
- How could more value be added to the products?
- How can the suppliers of logs contribute to sawmill efficiency?

Results

Answer the questions above in your field notebook.

Appendix 5: Management Challenge

Today's forest managers are faced with many challenges in doing their job well. Forest management issues are usually complex and have ecological, economic, social and cultural aspects. Managers need to be creative to find workable solutions to these issues. By the end of the field camp you will have seen and heard about some regionally significant forest management issues, and these are representative of the kinds of issues that forest managers deal with around the world.

Objectives:

- To understand the nature of forest management issues
- To learn how forest managers respond to complex management challenges
- To reflect and then present your ideas on how a particular issue could be addressed
- To develop your observational skills
- To develop your critical thinking skills
- To develop communication skills

Methods:

Your task as a crew is to identify a significant forest management issue that you observed over the week.

- 1. Describe the issue and its context, including ecological, economic and social dimensions.
- 2. Describe how it is currently being addressed or not being addressed.
- 3. Present a set of recommendations that offer a workable solution
- 4. Make sure your recommendations are realistic in terms of risk, safety, social license, financial viability etc.

On Friday afternoon you will be given 2.0 hours to prepare your presentation.

During the week be sure to take good notes, take photos and ask lots of questions.

The methods you use to communicate your ideas are up to you. Be creative.

Each crew will have 20 minutes to present their ideas.

There will be 10 minutes for questions after each presentation.

Each crew member must participate in the presentation and question period.

Marking Rubric for Crew Management Challenge Presentations:

| Criterion | Exceptional | Very Good | Acceptable | Unacceptable |
|------------------------|--|---|---|---|
| Content | Team provides an accurate and complete explanation. Clear evidence of critical thinking (application, analysis, synthesis and evaluation) (10 pt.) | For the most part, explanations of concepts and ideas are accurate and complete. Some critical thinking evident (8 pt.) | Explanations of concepts and/or ideas are inaccurate or incomplete. Beginnings of critical thinking (6 pt.) | Poorly developed (4 pt.) |
| Organization | Team presents information in logical, interesting sequence which audience can follow. (3 pt.) | Team presents information in logical sequence which audience can follow. (2 pt.) | Audience has difficulty following presentation because it jumps around. (1 pt.) | Audience cannot understand presentation because there is no consistent flow of information. (.5 pt.) |
| Creative expression | Team's methods explain and reinforce presentation in an exceptionally creative way. Exceptionally entertaining (3 pt.) | Team's methods relate to presentation. Entertaining (2 pt.) | Teams methods rarely support ideas. Mildly entertaining (1 pt.) | No relation. Hard to follow. Not entertaining (.5 pt.) |
| Speaking Skills | Poised, articulate; proper volume; steady rate; good posture and eye contact; enthusiasm; confidence. (4 pt.) | Clear articulation but not as polished. (2 pt.) | Some mumbling; little eye contact; uneven rate; little or no expression. (1 pt.) | Inaudible or too loud; no eye contact; rate too slow/fast; disinterested/monotone (1 pt.) |
| Length of Presentation | On time (0 pt) 20 minutes | | | More than 5 minutes over or under time (-2 pt.) |
| Total Points | | | | |
| 20 max | | | | |

Marking Rubric

| First week Quiz | 20% |
|----------------------|-----|
| Field Note Book | 35% |
| Crew Challenge | 35% |
| Effort/Participation | 10% |



Marking Guide for Field Notebooks

Name of Marker

Name on Notebook

| Format | | Peer* | | * | TA |
|--|--|-------|------|---|-----|
| Readable | *Writing legible *Notes make sense and are not too cryptic | 1 | 2 | 3 | /4 |
| Structure | *Easy to navigate within the notebook (can you find anything that you want to look for easily?). | | | | |
| | *Easy to understand where you are within the notebook (if you open to any page, can you easily find what the page is about?). | 1 | 2 | 3 | /6 |
| | *Headings, section breaks, individual speakers, personal notes all easy to identify. | | | | |
| Content | | | 'eer | | TA |
| Complete | *Each stop documented. | 1 | 2 | 3 | /10 |
| For Each Stop | Describes when - | | | | |
| | *Dates and times included as part of heading for each stop. | 1 | 2 | 3 | /5 |
| | *Date at the top of each page. | | | | |
| Describes where - *Location clearly identified as part of the heading for each stop (including forest name and block number if possible). | | | | | |
| | | 1 | 2 | 3 | /5 |
| | *Physical characteristics of site clearly and comprehensively listed (if important to the issues). | | | | |
| Describes who - *Proponent of the principle issues associated with stop identified clearly. | | | | | |
| | | 1 | 2 | 3 | /5 |
| | *Names and affiliations of other people in attendance listed. | | | | |
| | Describes what - | | | | |
| *Topic or purpose of stop clearly identified in heading. | | 1 | 2 | 3 | /10 |
| | *Major issues relating to topic of stop succinctly listed as part of notes. | | | | |
| | Describes why - | | | | |
| | *Importance of the topic in the general scheme of things outlined (why were they there looking at what they were looking at?). | 1 | 2 | 3 | /10 |
| | Describes how - | 1 | 2 | 3 | /10 |
| | *How were the issues being dealt with? | ı | | J | /10 |
| Summary Section | *Brief discussion/summary of the most interesting thing you learned each day. | 1 | 2 | 3 | /35 |
| Overall | | 1 | 2 | 3 | /10 |

^{*1 =} Good, 2 = OK, 3 = Needs Work

COMMENTS:

FROM CFAB

1. Tree and Stand dynamics

- Describe plant communities
- Explain the relationship between and within plant indicators
- Describe current and past tree and stand conditions and the processes that led to them and articulate possible future conditions

2. Forest to Landscape: Structure, Function and Dynamics

- Describe the components, characteristics and processes of forest ecosystems and how they interact
- Describe and apply classification schemes using vegetation, climate and edaphic characteristics
- Explain influences and outcomes of agents of change on forests and landscapes

3. Forest Management

- Describe the variety of values and competing interests in a forest
- Explain forest strategic and operational planning principles
- Analyze and apply a range of forest cover manipulation strategies that effectively achieve a given set of objectives while minimizing negative impacts
- Explain the legal and policy framework
- Discuss forest management concepts
- Describe how global trends drive and influence forest management
- Develop a resource planning document that incorporates current economic, environmental and social values into actions that lead to achieving the planning objectives and to future desired conditions and goals.