



COURSE OUTLINE

RRMT 235

Forest Management

45 HOURS

3 CREDITS

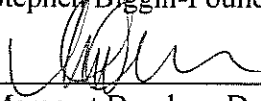
PREPARED BY:



Stephen Biggin-Pound, Instructor

DATE: 15/12/14

APPROVED BY:



Margaret Dumkee, Dean

DATE: Dec 15, 2014

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Course Outline prepared by Stephen Biggin-Pound, December 2014.

Yukon College
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FOREST MANAGEMENT

INSTRUCTOR: Stephen Biggin-Pound
OFFICE HOURS: By appointment or after classes
TELEPHONE: 668-8796
E-MAIL: sbiggin-pound@yukoncollege.yk.ca
FAX: 668-8828

COURSE OFFERINGS

DAYS & TIMES:

Lecture:	Tuesdays and Thursdays
Time:	1:00 pm – 2:30 pm
Lab:	Fridays
Time:	9:00am – 12:00 pm

COURSE DESCRIPTION

This course introduces the boreal forest as a complex ecosystem with a variety of values. Current management issues and methodologies to meet competing demands are examined. The course will cover the basics of forest management, with specific reference to the Yukon.

LEARNING OUTCOMES

Upon successful completion of this course students will be able to:

1. Describe the characteristics and ecology of boreal forests.
2. Describe the role of natural disturbance (fire, insects, disease etc.) in shaping boreal forests.
3. Explain how forested and other ecosystems are classified.
4. Describe forest management policy and legislation in the Yukon.
5. Describe what is meant by ecosystem-based approach to managing for biological diversity and other non-timber values.
6. Understand the principles of forest planning and management.
7. Describe the various silvicultural systems, reforestation, and stand tending practices used in operational forestry and evaluate their appropriateness for boreal forests and for different objectives.

DELIVERY METHODS/FORMAT:

- Material will be presented in the form of lectures, readings, discussions, lab and field activities, and assignments. There will be guest lectures by local professionals involved in resource management.
- Mandatory lab sessions and occasional field trips (weather permitting) will introduce students to the technical skills required to manage resource use in boreal forests.
- Assignments will be submitted in the form of written reports and/or given as presentations to the class.
- While some activities may be done in groups, results and reports **MUST** be done individually.
- **NOTE:** students unable to meet an assignment due date must get prior approval for a new due-date as late assignments will not be accepted
- **A pass in the lab component of this course is required to obtain credit for this course.**

COURSE REQUIREMENTS/EVALUATION:

Assessments (<i>short quizzes</i>)	10%
Assignment #1	15%
Assignment #2	25%
Lab Assessments	25%
Final Exam	25%
Total	100%

ASSESSMENTS:

Assessments will be used to capture and apply learning in the shorter-term, and to promote frequent review and retention of course content. Short quizzes will be issued every 3 to 4 weeks.

Quizzes **10%**

A series of 4 short quizzes, each covering the content of one section of the course. 2.5% each.

ASSIGNMENTS:

Assignment #1: Presentation and Report **15%**

Students have the opportunity to select a topic of their own particular interest from within the wide field of Forest Management to focus on for self-directed learning. The topic chosen must be and approved by the instructor. A written report of 5-10 pages is required. Students will prepare a brief presentation to share their learning with the rest of the class and promote their own learning.

Grading will be broken down as follows:

- 1) Topic choice and proposal (5%)
- 2) Final report (5%)
- 3) Presentation of 15-20 minutes in class (5%)

Assignment #2: Site Plan**25%**

Students will apply their learning of forest management planning and operations to prepare a Site Plan for a small hypothetical harvest block within a timber harvest area. A local forested area with easy access will be selected for this assignment. The site plan must be presented in the standard format in use in the Yukon, with a short written report and a detailed site map. Students will be required to review relevant legislation, regulations and Forest Management Plans, and to conduct all necessary field work to gather site and stand data and survey data required for mapping. Field work will be conducted in groups, but the Site Plan must be submitted individually.

LAB ASSESSMENTS

The lab component of the course focuses on practical knowledge and field skills. Assessments will focus on interpretations of field guides and manuals and on the application of standard field skills.

Lab Quizzes**10%**

There will be 2 lab written quizzes covering field-related concepts and the interpretation of field guides and manuals, one mid-term and one final. 5% each.

Lab Practical**15%**

There will be a final lab practical exam to assess the application of critical field skills in a field-based setting. The lab practical will take place as the last lab session of the course. 10%.

FINAL EXAM**25%**

There is a written final exam to assess learning. It will consist of a variety of short- and long-answer questions and will include practical applications such as diagram and map questions. See the School of Science final exam schedule for date and location.

LAB:

Mandatory indoor and outdoor lab sessions and occasional field trips will provide students with opportunities to practice the technical skills required to manage boreal forests. Please be prepared for outdoor work in a winter forest setting, including appropriate clothing and travel by snowshoes or skis where required.

STUDENTS WITH DISABILITIES OR CHRONIC CONDITIONS:

This course involves experiential learning and students should be capable of hiking 2 km in forest terrain carrying their personal daypack and using a compass or clinometer to take readings. Reasonable accommodations are available for students with a documented disability or chronic condition. It is the student's responsibility to seek these accommodations. If a student has a disability or chronic condition and may need accommodation to fully participate in this class, he/she should contact the Learning Assistance Centre (LAC) at (867) 668-8785 or lassist@yukoncollege.yk.ca.

PLAGIARISM:

Plagiarism involves representing the words of someone else as your own, without citing the source from which the material is taken. If the words of others are directly quoted or paraphrased, they must be documented according to standard procedures (APA). The re-submission of a paper for which you have previously received credit is also considered an academic offence.

Plagiarism (academic dishonesty) is a serious academic offence and will result in a mark of zero on the assignment or the course. In certain cases, it can also result in dismissal from the college.

REQUIRED TEXTBOOKS/MATERIALS:

There is no required textbook for this course. Required readings will be supplied. Listings of suggested texts and readings for further context and study will be provided.

EQUIVALENCY/TRANSFERABILITY:

UNBC FSTY 2XX (3)

PREREQUISITES:

Successful completion of RRMT 125, RRMT 121, and admission to the second year of the Renewable Resources Management Program, or permission of the instructor.