



RENr 376: Wildlife Ecology and Management

Course Syllabus

In Fall 2016, RENr 376: *Wildlife Ecology and Management* is being offered at Yukon College as part of the the University of Alberta's B.Sc. Program in Northern Environmental and Conservation Sciences.

All students registered in RENr 376 must adhere to requirements outlined in this course syllabus. They must also be aware of, and adhere to, the University's Code of Student Behaviour, referenced in the outline.

INSTRUCTOR:	Thomas Jung Adjunct Professor, Department of Renewable Resources, University of Alberta Senior Wildlife Biologist, Department of Environment, Government of Yukon
OFFICE HOURS:	TBD
OFFICE LOCATION:	TBD
E-MAILS:	ts_jung@hotmail.com; tjung@ualberta.ca

DAYS & TIMES: Lectures: Tuesdays and Thursdays 10:30 AM – 12:00 PM – Room A2206
Labs: Mondays 6:00-9:00 PM – Room A2204

COURSE DESCRIPTION:

Principles of wildlife ecology as applied to the management of wildlife species and habitats.

Special emphasis on the growth and regulation of populations, spatial patterns of population distribution, interactions among species and their environments, and the human dimensions of wildlife management.

Assignments will include quantitative exercises that demonstrate key principles.

STUDENT LEARNING OUTCOMES AND COMPETENCIES:

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

1. the guiding principles and practices underlying wildlife management, including historical and contemporary developments;
2. wildlife ecology as it relates to wildlife management;
3. key techniques used by wildlife biologist to gain scientific and social science data used to inform wildlife management;
4. the management of select wildlife populations through relevant case studies; and
5. various issues concerning wildlife management, and be encouraged to identify their own values in wildlife conservation.

COURSE FORMAT:

This course will be delivered in both a lecture and lab format: 3 hours of lecture per week, and 3 hours of lab per week.

Lectures will largely focus on concepts, principles and current issues in contemporary wildlife management.

Labs will first focus on key wildlife field techniques used in northern North America. About half way through the course the labs will switch to highlight case studies in the management of select wildlife species in northern North America (e.g., ungulates, carnivores, etc.).

COURSE PREREQUISITES AND/OR CO-REQUISITES:

Registration in University of Alberta BSc program in Environmental and Conservation Sciences degree program Prerequisite: BIOL 208.

TEXTBOOKS/MATERIALS:

There is no required textbook for this course. However, for students with an aspiration to become a wildlife management professional it is recommend that they acquire either (or both) of the texts below. Key readings from the primary or popular literature will be distributed electronically to students.

Fryxell, J.M., A.R.E. Sinclair, and G. Caughley. 2014. Wildlife Ecology, Conservation and Management. Wiley Inc.

Krausman, P.R., and J.W. Cain. 2013. Wildlife Management and Conservation. John Hopkins

University Press.

E-CLASS OR COURSE WEBSITE

Lecture notes will be distributed via email.

UNIVERSITY OF ALBERTA ACADEMIC INTEGRITY AND CODE OF STUDENT BEHAVIOUR

Plagiarism and Cheating

The University of Alberta is committed to highest standards of academic integrity and honesty. Students must be familiar with standards regarding academic honesty and uphold policies of the University. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

All students at the University of Alberta are subject to the Code of Student Behaviour, as outlined in the 2014/2015 University Calendar. Students should familiarize themselves with the current version of the code and ensure they do not participate in any inappropriate behaviour as defined by it. Key components of the code specific to this course include the following statements.

Plagiarism: no student shall submit the words, ideas, images or data of another person as the student's own in any academic writing, essay, thesis, project, assignment, presentation or poster in a course or program of study.

Cheating: no student shall represent another's substantial editorial or compositional assistance on an assignment as the student's own work. The most recent version of the Code of Student Behaviour can be found on line on the University of Alberta web site.

Students should speak with the course instructor about any questions or concerns about the code. Students should be particularly aware of the code as it pertains to internet and library research, use of previous class notes, reclamation plans of former students and interviews or discussions with others.

Professionalism and Classroom Rules of Engagement

Students are expected to attend all lectures and labs, be engaged and courteous in all course activities, and to be on time for class. Please do not use cellular phones during class. Laptops are permitted for note taking and in-class work; however, please do not use laptops in class for non-class-related activities. While in computer labs, students are expected to refrain from using the computers to engage in non-class-related activities (e.g. Facebook, etc.).

STUDENTS WITH DISABILITIES OR CHRONIC CONDITIONS:

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 instructor.

EQUIVALENCY/TRANSFERABILITY:

For current information on course transferability see <http://www.bctransferguide.ca>

COURSE REQUIREMENTS/EVALUATION:

Attendance and Participation

This course is largely based on material delivered and discussed in lectures and labs. As such, student attendance and active participation in class is required. However, attendance and participation do not directly factor into the student's evaluation.

Evaluation

The course grade will be determined as follows:

	Percent
Assignment #1	10%
Assignment #2	25%
Lab Participation	10%
Mid-Term Exam	25%
Final Exam	30%

Due Dates

Class assignments must be submitted electronically, via email, by 11:59 pm on the due date.

Grades for late assignments will be reduced by 3% for each day after the due date that they are late. Assignments more than 7 days late will receive a grade of zero.

Under special circumstances, students may receive an extension on the due date, providing they request such to the instructor before the due date.

The following are important due dates.

28 October 2016	Mid-Term Exam
6 November 2016	Assignment #1
9 December 2016	Assignment #2
9 December 2016	Final Exam

TENTATIVE SCHEDULE (SUBJECT TO CHANGE)

Week	Tuesday Lecture Topic	Thursday Lecture Topic	Monday Lab Topic
1-5 September		Course Introduction	No Class
8-12 September	What is Wildlife Management?	The North American Model of Wildlife Management	Techniques: Radio-Telemetry
15-19 September	Who Manages Wildlife?	Human Dimensions of Wildlife	No Class
22-26 September	Wildlife Management Planning	Wildlife Measurements	Techniques: Small Mammal Trapping
29 September – 3 October	Wildlife Ecology: Food & Habitat	Wildlife Ecology: Movements & Space Use	Techniques: Large Mammal Inventory
6-10 October	+ Wildlife Ecology: Competition & Predation	Wildlife Ecology: Population Cycles	Techniques: Wildlife Necropsy
13-17 October	No Class (Thanksgiving)	Wildlife Ecology: Population Growth	Mid-Term Exam
20-24 October	Harvest Management: Public Process	Harvest Management: Applied Science	Techniques: Large Mammal Captures
27-31 October	+ Harvest Management: Types of Harvest	Endangered Species: Threats & Stressors	Techniques: Large Mammal Captures
3-7 November	Endangered Species: Listing & Recovery	Endangered Species: Reintroductions	Case Study: Ungulate Management
10-14 November	Wildlife Control: Alien & Invasive Species	Wildlife Control: Overabundant Species	Case Study: Human-Wildlife Conflict
17-21 November	+ Forerst Management and Wildlife	Wildlife and Agriculture	Case Study: Carnivore Management
24-28 November	No Classes		
1-5 December	Roads and Wildlife	Human Disturbance of Wildlife	Case Study: TBD

8-12 December	++ Wildlife in Parks	Special Species: Flagships, Indicators & Keystones	Exam Review
15-19 December	No Class	Final Exam	