

University of Manitoba
Department of Environment and Geography

ENVR 4000 T 45 - Wildlife Management
Fall 2019 (3 ch)

1. General Information

Instructor

- David Walker
David.Walker@umanitoba.ca
253 Wallace
204-474-6581

Wildlife Project Coordinators

- Don Sexton
Ducks Unlimited (retired)
sextonda@mymts.net
- Rick Baydack
Rick.Baydack@umanitoba.ca
255 Wallace
204-474-6776

Lecture Room: 217 Wallace Building

Lecture Time: Mondays 2:30 PM*

* Note this course consists of regular lectures, individual assignments and class participation/group projects and seminars. Group final presentations are scheduled at the end of term. See the course schedule (Section 7).

Course Goals: Wildlife Management is a 3-credit hour project course in the Department of Environment and Geography. The intent is to provide students with an understanding of real-world issues in the wildlife management field, as identified in conjunction with representatives of government and other agencies in Manitoba. In particular, liaison with Manitoba Sustainable Development, Ducks Unlimited Canada, and Environment Canada is anticipated. The course includes independent work, but a core outcome of the class is to build the skills and abilities of students to work as members of a team, a requirement that is becoming increasingly important in professional environmental careers.

Course Objectives: Upon completion of this course, students will be able to:

- I. Become familiar with scientific theory and evidence used in supporting wildlife management decisions
- II. Understand the nature of contemporary wildlife management issues and strategies in the Province of Manitoba and beyond
- III. For a specific issue/strategy, prepare a written/electronic and oral submission as a member of a research team.

2. Course Content

The course will consist of lectures, individual assignments and self-directed studies by teams of 3 students on wildlife management issues and strategies as identified in class discussions. In particular, each of the Wildlife Project Coordinators listed above will serve as key resource persons and act as a liaison for students to access information and knowledgeable agency representatives. The course will emphasize real-world, hands-on experience in dealing with the various stakeholders involved in wildlife management. This will include meetings outside of regular University class times and at various locations across the Province.

For the team projects, students will be expected to determine the most effective strategies that might be applied to the issue under consideration after careful investigation of various alternatives, and also to explain why their approach is considered to be optimal. Research teams are expected to locate background literature, resources, and other documentation for their specific project in conjunction with the Wildlife Project Coordinators and expert contacts.

Team research projects will be discussed at a first meeting of the class scheduled for Monday September 9, 2019 from 2:30-4:00 PM, with a follow-up meeting to finalize projects at 2:30 PM on Monday September 16. If students are unable to attend these meetings, please contact the course instructor as soon as possible.

Recording Class Lectures: Dr. David Walker and the University of Manitoba hold copyright over the course materials, presentations and lectures that form part of this course. No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission of Dr. Walker. Course materials (both paper and digital) are for the participant’s private study and research.

3. Evaluation*

Team Progress Summary 1 (5-10 min)**	
Due: September 30, 2:30 PM – 217 Wallace	5%
Team Progress Summary 2 (5-10 min)**	
Due: October 21, 2:30 PM – 217 Wallace	5%
Team Progress Summary 3 (15 min)**	
Due: November 18, 2:30 PM - 217 Wallace	10%
Oral Presentations - Team Project (25 min)**	
Due: December 2, 2:30 PM - 217 Wallace	20%
Individual Assignment – Lecture Topic Report/Presentation	
Due: November 27, 4:30 PM	30%
Final Team Project Report and Log Book Submission	
Due: December 6, 4:30 PM	30%

* Note that electronic submission of all assignments, and team submissions, and oral presentations should be done using the UofM Learn site (www.umanitoba.ca/d2l) for this course.

Oral Presentation grade includes participation and attendance at **all presentations given by **all** groups.

4. Individual Assignment – Report and Presentation

The Individual Assignment consists of two parts: An oral presentation in the form of a short 'lecture' and a brief report. The overall assignment is worth 30% of the final grade with the Presentation worth 5% and the Report worth 25%. The subject of the presentation and report will be assigned during the first lecture and will be based on the topics listed in Section 8 of the Course Outline. In Section 8 under *Lecture Topics for Individual Assignment by Date* there are five potential topics to be presented in each of six lecture slots over the course of the fall term. Each student will be assigned to present on **one** of these topics on **one** of the dates listed and prepare a report on that topic. The format and content expected for the oral and written report are included below.

Individual Assignment Oral Presentations

The oral presentation will be in the form of a lecture (i.e. you will be 'teaching' the class). For the topic you have been assigned the presentation should consist of:

- i. Slides should use font size and type-faces that are **visible and readable** throughout the classroom (including the far back of the room).
- ii. Presentations should be well-organized. Proper grammar and spelling will be considered in grading.
- iii. Presentations must be 15 minutes long and be handed in to UMLearn **prior** to lecture.
- iv. Presentations should have the following structure:
 - a. *Title Slide*: Title including your Student ID.
 - b. *Topic Outline*: Bulleted list summarizing the presentation content
 - c. *Main Content*: Topic definition/background. Slides summarizing five main points regarding the topic (identified by using the literature – see references section in the written report for rules regarding literature). A concluding slide(s) on application of that topic in wildlife management.
 - d. *References and Further Reading*: Provide references used for the lecture

Individual Assignment Written Report

A written report on the assigned lecture topic must be submitted on UMLearn on November 29, 2019 by 4:30 PM. The presentation slides are not to be included in the report, nor should the report be an 'expanded' version of the lecture. Instead, you will be expected to research the topic and provide a literature review. All reports should have the following structure:

- i. Reports must be typed, using a 12-point single spaced font.
- ii. Reports should be well-organized and well-written. Proper grammar and spelling will be considered in grading.
- iii. Reports should be no less than 2000-words and no more than 2500-words (approx. 4-5 pages), **excluding** figures, tables and the references section.
- iv. The report must be structured in the following manner:
 - a. *Title Page*: Title including your Student ID.
 - b. *Abstract/Executive Summary*: a short paragraph (up to 4 sentences long) summarizing the report topic with a clear statement of what will be covered.
 - c. *Main Text*: Review the assigned topic in wildlife management and provide a summary. The relevance of the topic to wildlife management should be thematically incorporated into the text. It is highly recommended that for topics that are more theoretical, or are foundational concepts, that a section on "Applications/Relevance to Wildlife Management" be included at the end of the report. Organize the main text using appropriate headings. You must also build on the literature and use appropriate references. It is EXPECTED that any material(s) provided or assigned will be supplemented by additional peer-reviewed literature.
 - d. *References*: only **primary peer-reviewed** and/or official government publications can be used in reports. Websites **CANNOT** be used as sources unless the site is a recognized on-line academic publication (typically these articles have a doi). Publications intended for a general audience (e.g. government or non-governmental organizational brochures, pamphlets and posters) **CANNOT** be used as sources for scientific information. Textbooks **CANNOT** be used. All material/sources must be appropriately cited (see *Using Copyrighted Material* in Section 7).

- e. *Tables and Figures*: Provide these on separate pages **at the end of the document** with appropriate table titles and figure captions. All tables and figures **MUST** be referenced in the main text. All tables should be formatted using an APA style.

Assignment Submission: The Assignment **MUST** be **complete** and **MUST open** to be considered finished. Libre Office Writer, MS Word or PDFs are acceptable.

5. Team Project – Wildlife Management Plan

The team project will consist of an assigned real-world issue in the wildlife management field that has been identified in conjunction with government and other agencies in Manitoba. In addressing the assigned issue, the team will develop a well-researched **Wildlife Management Plan**. It is **expected that as part of this research the teams will liaison** with Manitoba Sustainable Development, Ducks Unlimited Canada, Delta Waterfowl, and Environment Canada (and other government/non-government organizations as appropriate to the topic). We will provide potential contacts to each group during the term and expect teams to follow-up with these contacts. When contacting professionals it is also expected that any questions asked will have been well-researched prior to contacting those individuals. Project evaluation will be based on three group in-class oral presentation updates, a final oral presentation, and a final report and log-book submitted on UM Learn (see Section 3 *Evaluation* for marking details).

Wildlife Management Plan Oral Presentations

The first three oral presentations (with a total time of 10 min for first two, and 15 min for the third) will provide updates on group progress, while the final presentation (25 minutes in duration) will describe and defend the final management plan. **During your first presentation you must provide a reference for the published management plan that your group will use in creating your final report.** It is recommended that presentations should be uploaded on D2L well before the start of class on the day of presentation. Oral presentations should be submitted in PowerPoint or PDF format. If you use Prezi, have your presentation on a USB stick, or plan to use your own computer for the presentation please confirm with the instructor before class.

Wildlife Management Plan Activity Log Book

During the term you must keep a log of all group activities including the professional contacts that you have made and the time/length of those meetings/interactions. In the log you must record the questions that you asked each professional. This log book will be assessed for completeness and quality of the questions asked of the professionals that you contact. This log can be in the form of a word processor document and although no specific format/organization is required, it should be free of grammar, spelling errors and be logically structured.

Wildlife Management Plan Written Final Report

The written requirements for the Plan differ from those of the Assignment – this report is to be written as a **Wildlife Management Plan** and must conform to a *published* wildlife management plan (or conform to published guidelines for developing such a plan). The Plan must:

- a. highlight the background and historical development of the assigned issue;
- b. identify appropriate objectives and methods for investigation of the issue;
- c. summarize results and conclusions of the investigation;

- d. provide recommendations to provincial and other agencies for enhancing wildlife management initiatives as related to the issue;
- e. log all professionals contacted, and all group activities in developing the Plan, and;
- f. provide a comprehensive literature review (no less than 20 primary sources)*.

*Guidelines and requirements for the literature review follow those for the assignment (i.e. primary sources are required and use of websites is restricted to primary works, e.g. example plans).

The length of the final report should adequately cover the material presented in the plan, but in general it is approximately 5000-6000 words or 10-12 pages single spaced not including tables and figures.

Further details and requirements for the team project will be announced in class on **September 9, 2019**.

Grade Distribution Scale

A+	>= 90%
A	80 – 89%
B+	75 - 79%
B	70 - 74%
C+	65 – 69%
C	60 – 64 %
D	50 - 59%
F	<= 49%

6. Academic Regulations and Expectations

Last VW date: Nov. 18, 2019 for withdrawal without academic penalty.

Attendance: The course will run from Sept. 4 to Dec. 6, 2019 and will be worth 3 credit hours. Attendance over this period is expected of all students enrolled in this course. Please note the following penalty: a student may be debarred from class, laboratories, and examinations by action of the dean/director for persistent non-attendance.

Plagiarism: Plagiarism, cheating or impersonation in the completion of assignments, and at examinations, are very serious offences. Students caught plagiarizing on assignments may be debarred from class with further risk of academic penalty and possible expulsion. All graded work must be independent.

Using Copyrighted Material: Please respect copyright. We will use copyrighted content in this course. We have ensured that the content we use is appropriately acknowledged and is copied in accordance with copyright laws and University guidelines. Copyrighted works, including those created by us, are made available for private study and research and must not be distributed in any format without permission. Do not upload copyrighted works to a learning management system (such as UM Learn), or any website, unless an exception to the Copyright Act applies or written permission has been confirmed. For more information, see the University’s Copyright Office website at <http://umanitoba.ca/copyright/> or contact um_copyright@umanitoba.ca. Citation of copyrighted or any source materials in written assignments for this course should use the APA reference style or CSE as outlined in:

Council of Science Editors. Style Manual Committee. (2014). *Scientific style and format : The CSE manual for authors, editors, and publishers* (8th ed.). Chicago (IL): Council of Science Editors in cooperation with The University of Chicago Press.

American Psychological Association. (2009). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC.

Late submission Policy for Assignments, Reports and Presentations: Late submissions will be awarded an automatic “F” without permission of the instructor and supporting documentation (e.g. medical certificate) or reasons provided. Failure to hand-in one or more assignments/reports will result in a grade of “F” for the course.

7. Course Schedule

Group Assignments and Group Presentation Dates

Date	Activity
Sept. 9&16	Planning Meetings; 2:30 PM, 217 Wallace
Sept. 30&Oct. 21	Team Progress Presentations I & II; 2:30 PM, 217 Wallace
Nov. 18	Team Progress Presentation III; 2:30 PM, 217 Wallace
Dec. 2	Final Project Oral Presentations; 2:30 PM - 217 Wallace
Dec. 6	Final Team Project Report Submission; 4:30 PM, UMLearn

Lecture Topics for Individual Assignment by Date

These topics are subject to change once classes begin and enrollment has been finalized. Note that in addition to student 'lecture presentations' the Instructor will also be providing a lecture on related topics, as well as critical issues in wildlife. Students are expected to take notes and review any literature presented for all topics covered below.

Date	Topics
Sept. 9	Definitions: (1) Defining Wildlife Management; (2) Wildlife Management Plans
Student Lecture Topics	
Oct. 7	Context: (1) History of Wildlife Management; (2) Conservation Ethic; (3) North American Model of Wildlife Management; (4) Economics of Wildlife Management
Oct. 14	Demographics: (1) Population Parameters; (2) Life Tables; (3) Concept of Carrying Capacity; (4) Leopold's Population Model
Oct. 28	Censusing and Monitoring: (1) Complete/Incomplete Census; (2) Census Technologies; (3) Animal Care and Handling; (4) Analysis of Telemetry;
Nov. 4	Decimating Factors: (1) Predation; (2) Hunting; (3) Disease; (4) Accidents and Starvation
Nov. 25	Welfare Factors: (1) Forage; (2) Cover and Special Features; (3) Water Management for Wildlife; (4) Predator Control.
Nov. 27	Individual report submission for all students

8. Academic Supports

The University of Manitoba provides many services and supports to encourage good scholarship and overall health and wellness including: instruction to improve writing skills, best use practices for copyrighted materials, and supports for studying for examinations etc., personal health (both mental and physical) including: student advocacy, student counseling and health services, etc. and supports for assaults (both verbal and physical). These are designed to make each student's experience positive, safe and assist in successful completion of courses and programs of study. The University provides and encourages all members and students to maintain a respectful work and learning environment. Policies have been developed regarding threatening behavior, or assaults whether verbal or physical to support victims and discipline offenders. For more information on these see Schedule "A".

Section (a) Academic Supports

Writing and Learning Support: The Academic Learning Centre (ALC) offers services that may be helpful to you throughout your academic program. Through the ALC, you can meet with a learning specialist to discuss concerns such as time management, learning strategies, and test-taking strategies. The ALC also offers peer supported study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In these study groups, students have opportunities to ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

You can also meet one-to-one with a writing tutor who can give you feedback at any stage of the writing process, whether you are just beginning to work on a written assignment or already have a draft. If you are interested in meeting with a writing tutor, reserve your appointment two to three days in advance of the time you would like to meet. Also, plan to meet with a writing tutor a few days before your paper is due so that you have time to work with the tutor’s feedback.

These Academic Learning Centre services are free for U of M students. For more information, please visit the Academic Learning Centre website at:

<http://umanitoba.ca/student/academiclearning/>

You can also contact the Academic Learning Centre by calling 204-480-1481 or by visiting 201 Tier Building.

University of Manitoba Libraries (UML)

As the primary contact for all research needs, your liaison librarian (if they weren’t recently fired by Central Administration) can play a vital role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns

you may have, regarding the research process. Liaisons can be contacted by email or phone, and are also available to meet with you in-person. A complete list of liaison librarians can be found by subject:

<http://bit.ly/WcEbA1> or name:
<http://bit.ly/1tJ0bB4>.

In addition, general library assistance is provided in person at 19 University Libraries, located on both the Fort Garry and Bannatyne campuses, as well as in many Winnipeg hospitals. For a listing of all libraries, please consult the following: <http://bit.ly/1sXe6RA>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries’ homepage:

www.umanitoba.ca/libraries

Section (b) Mental Health

For 24/7 mental health support, contact the Mobile Crisis Service at 204-940-1781.

Student Counselling Centre: Contact SCC if you are concerned about any aspect of your mental health, including anxiety, stress, or depression, or for help with relationships or other life concerns. SCC offers crisis services as well as individual, couple, and group counselling.
Student Counselling Centre:

<http://umanitoba.ca/student/counselling/>
474 University Centre
S207 Medical Services
(204) 474-8592

Student Support Case Management: Contact the Student Support Case Management team if you are concerned about yourself or another student and don’t know where to turn. SSCM helps connect students with on and off campus resources, provides safety planning, and offers other supports, including consultation, educational workshops, and referral to the STATIS threat assessment team.

Student Support Intake Assistant

<http://umanitoba.ca/student/case-manager/index.html>

520 University Centre
(204) 474-7423

University Health Service: Contact UHS for any medical concerns, including mental health problems. UHS offers a full range of medical services to students, including psychiatric consultation.

University Health Service

<http://umanitoba.ca/student/health/>

104 University Centre, Fort Garry Campus
(204) 474-8411 (Business hours or after hours/urgent calls)

Health and Wellness: Contact our Health and Wellness Educator if you are interested in information on a broad range of health topics, including physical and mental health concerns, alcohol and substance use harms, and sexual assault.

Health and Wellness Educator

<http://umanitoba.ca/student/health-wellness/welcome.html>

Katie.Kutryk@umanitoba.ca

469 University Centre
(204) 295-9032

Live Well @ UofM: For comprehensive information about the full range of health and wellness resources available on campus, visit the Live Well @ UofM site:

<http://umanitoba.ca/student/livewell/index.html>

Section (c) Copyright Information

All students are required to respect copyright as per Canada's *Copyright Act*. Staff and students play a key role in the University's copyright compliance as we balance user rights for

educational purposes with the rights of content creators from around the world. The Copyright Office provides copyright resources and support for all members of the University of Manitoba community. For more information:

<http://umanitoba.ca/copyright>

Section (d) Rights and Responsibilities

Your rights and responsibilities: As a student of the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school.

The [Academic Calendar](#)

<http://umanitoba.ca/student/records/academiccalendar.html> is one important source of

information. View the sections *University Policies and Procedures* and *General Academic Regulations*.

While all of the information contained in these two sections is important, the following information is highlighted.

- If you have questions about your grades, talk to your instructor. There is a process for term work and final **grade appeals**. Note that you have the right to access your final examination scripts. See the Registrar's Office website for more information including appeal deadline dates and the appeal form:

<http://umanitoba.ca/registrar/>

- You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the **Academic Integrity** regulation. Consult the

course syllabus or ask your instructor for additional information about demonstrating academic integrity in your academic work. Visit the Academic Integrity Site for tools and support <http://umanitoba.ca/academicintegrity/> View the **Student Academic Misconduct** procedure for more information.

- The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected to conduct yourself in an appropriate respectful manner. Policies governing behavior are included in the next section.

Section (e) Policies and Services Information

Respectful Work and Learning Environment

http://umanitoba.ca/admin/governance/governing_documents/community/230.html

Student Discipline

http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html

and,

Violent or Threatening Behaviour

http://umanitoba.ca/admin/governance/governing_documents/community/669.html

- If you experience **Sexual Assault** or know a member of the University community who has, it is important to know there is a policy that provides information about the supports available to those who disclose and outlines a process for reporting. The **Sexual Assault** policy may be found at: http://umanitoba.ca/admin/governance/governing_documents/community/230.html More information and resources can be found by reviewing the Sexual Assault site <http://umanitoba.ca/student/sexual-assault/>

Intellectual Property

- For information about rights and responsibilities regarding **Intellectual Property** view the policy:

http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy_-_2013_10_01.pdf

Department Policies

For information on regulations that are specific to Environment and Geography, read the section in the Academic Calendar for the Department and on:

<http://umanitoba.ca/faculties/environment/departments/geography/index.html>

Contact an **Academic Advisor** within our faculty/college or school for questions about your academic program and regulations <http://umanitoba.ca/academic-advisors/>

Student Advocacy

Contact Student Advocacy if you want to know more about your rights and responsibilities as a student, have questions about policies and procedures, and/or want support in dealing with academic or discipline concerns.

<http://umanitoba.ca/student/advocacy/>
520 University Centre
204 474 7423
student_advocacy@umanitoba.ca